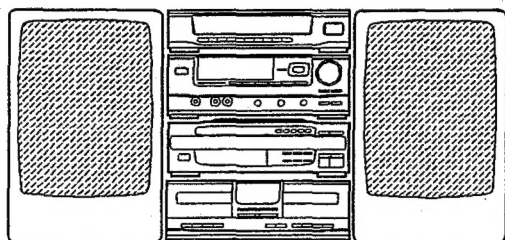


# aiwa



## Z-D3300M

# MANUAL SERVICE



STEREO SYSTEM

• BASIC TAPE MECHANISM : 2ZM-1P1, R1

• TYPE: HE,HK,LH,  
EE,K,EZ

SYSTEM	CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	SPEAKER	CD PLAYER	TURNTABLE
-	CU-D3300M (HE,HK,LH)	MX-Z3300M	FX-WZ7300	TX-Z9300	*1 SX-FZ3300	DX-Z9300M	-
Z-D3300M (EE,K,EZ)	-	MX-Z3300M	FX-WZ7300	TX-Z9300	*1 SX-FZ3300	DX-Z9300M (OPTIONAL)	PX-E850 (OPTIONAL)

\*1 CENTER SYSTEM does not have \*1.

- As to the service information of CASSETTE DECK, see the individual service manual of original.  
(S/M Code No. 09-956-104-6FE)
- As to the service information of TUNER, see the individual service manual of original.  
(S/M Code No. 09-954-101-50I & 09-956-105-50I)
- As to the service information of CD PLAYER, see the individual service manual of original.  
(S/M Code No. 09-954-101-60I)
- As to the service information of TURNTABLE, see the individual service manual of original.  
(S/M Code No. 09-947-070-90I)

## SPECIFICATIONS

### TUNER TX-Z9300

#### <FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	HE, HK, LH: 15.2 dBf (1.6 $\mu$ V, 75 ohms) EE, K, EZ: 18.2 dBf (2.2 $\mu$ V, 75 ohms)
Antenna terminals	75 ohms (unbalanced)

#### <AM tuner section> (HE, HK, LH only)

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	400 $\mu$ V/m
Antenna	Loop antenna

#### <MW tuner section> (EE, K, EZ only)

Tuning range	522 kHz to 1611 kHz
Usable sensitivity	400 $\mu$ V/m
Antenna	Loop antenna

#### <LW tuner section> (EE, K, EZ only)

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1000 $\mu$ V/m
Antenna	Loop antenna

#### <General>

Dimension (W x H x D)	360 x 88.5 x 320.5 mm (14 $\frac{1}{4}$ x 3 $\frac{1}{2}$ x 12 $\frac{5}{8}$ in.)
Weight	2.1 kg (4 lbs 10 oz)

### AMPLIFIER MX-Z3300M

Power requirements	HE, HK, LH: 120/220 - 230/240 V AC switchable 50/60 Hz EE, K, EZ: 230 V 50 Hz
Power consumption	HE, HK, LH: 90 W (System total 110 W) EE, K, EZ: 330 W (System total 350 W)
Power output	Rated: 60 W + 60 W (without connecting to the SURROUND SPEAKERS, 6 ohms, T.H.D. 1%, 1 kHz/DIN 45500) Reference: 75 W + 75 W (without connecting to the SURROUND SPEAKERS, 6 ohms, T.H.D. 10%, 1 kHz/DIN 45324) DIN MUSIC POWER: 98 W + 98 W
Total harmonic distortion	0.1% (38 W, 1 kHz, 6 ohms)
Outputs	SPEAKERS: accepts speakers of 6 ohms or more PHONES (stereo standard jack): accepts headphones of 32 ohms or more SUPER WOOFER: 1.5V MONITOR OUT: 1 Vp-p (75 ohms) REC OUT: 300 mV (1 kohm)

#### Inputs

VIDEO 1/AUX 1:	300 mV (39 kohms)
VIDEO 2/AUX 2:	500 mV (39 kohms)
PHONO IN:	500 mV or more (36 kohms)
HE, HK, LH:	
MIC 1, MIC 2:	1.4 mV (10 kohms)
EE, K, EZ:	
MIC 1, MIC 2:	1.2 mV (10 kohms)
360 x 128.5 x 329 mm	
(14 $\frac{1}{4}$ x 5 $\frac{1}{8}$ x 13 in.)	
6.9 kg (18 lbs 8 oz)	

#### Dimension (W x H x D)


#### Weight

### STEREO CASSETTE DECK FX-WZ7300

Track format	4 tracks, 2 channels stereo
Frequency response	Metal tape: 20 Hz - 17000 Hz CrO <sub>2</sub> tape: 20 Hz - 16000 Hz Normal tape: 20 Hz - 15000 Hz
Signal-to-noise ratio	HE, HK, LH: 65 dB (Dolby NR ON, metal tape peak level above 5 kHz) EE, K, EZ: 70 dB (Dolby NR ON, metal tape peak level above 5 kHz)
Wow and flutter	0.12% (WRMS) $\pm$ 0.19% (WPEAK)
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback/ erase head x 1
Dimension (W x H x D)	360 x 128.5 x 313 mm (14 $\frac{1}{4}$ x 5 $\frac{1}{8}$ x 12 $\frac{3}{8}$ in.)
Weight	3.2 kg (7 lbs 1 oz)

### SPEAKER SYSTEM SX-FZ3300

Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	Woofer: 220 mm (8 $\frac{3}{4}$ in.) cone type Tweeter: 80 mm (3 $\frac{1}{4}$ in.) cone type Super tweeter: 50 mm (2 in.) ceramic type
Impedance	Surround speaker: 80 mm (3 $\frac{1}{4}$ in.) Front speaker: 6 ohms Surround speaker: 16 ohms
Output sound pressure level	90 dB/W/m
Dimensions (W x H x D)	260 x 456 x 280 mm (10 $\frac{1}{4}$ x 18 x 11 $\frac{1}{8}$ in.)
Weight	5.9 kg (15 lbs 14 oz.)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.  
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.  
Under license from BBE Sound, Inc.

## ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-VP3-902-119		IB, EGI (S) <EE, EEZ, EZ>	2	85-VP2-619-019		RC, RC-T511
1	85-VP3-903-019		IB, ESC (S) <HE, LH, HK>	3	87-099-789-019		PLUG, ADPTR IR44 <HE, LH>
1	85-VP3-901-119		IB, ESF (S) <EE, K, EEZ, EZ>				



MODEL NO.

# MX-Z3300M

## ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C7	87-016-110-099		CAP,E 5600-25 SME
	82-VP2-628-010		IC,CXP82316-148Q	C8	87-010-453-099		CAP,E 4700-25 SME
	87-002-220-010		IC,UPA80C	C9	87-018-214-089		CAP,TC-U 0.1-50 F
	87-027-938-019		IC,TC4053BP	C10	87-018-214-089		CAP,TC-U 0.1-50 F
	87-027-958-019		IC,TC4051BP	C15	87-010-408-089		CAP,E 47-50 SME
	87-002-950-019		IC,BA3826S				
	87-027-666-019		IC,TC4052BP	C16	87-010-407-089		CAP,E 33-50 SME
	87-002-727-019		IC,NJM4558L	C17	87-015-914-089		CAP,E 47-100
	87-001-607-089		IC,NJM4558M	C18	87-010-263-089		CAP,E 100-10 SME 5X11
	87-002-218-010		IC,XRC5451AP	C27	87-010-405-089		CAP,E 10-50 SME
	87-017-374-019		IC,TC4094BP	C28	87-010-101-089		CAP,E 220-16 SME
	87-017-541-080		IC,M65830AFP<HE,HK>				
	87-001-530-019		IC,LA3607	C60	87-010-403-089		CAP,E 3.3-50 SME
	87-002-429-019		IC,NJU7305L	C61	87-010-374-089		CAP,E 47-10
	87-017-294-019		IC,NJM2120L	C71	87-010-405-089		CAP,E 10-50 SME
	87-017-309-010		IC,M65830P	C72	87-010-260-089		CAP,E 47-25 SME
	87-001-904-019		IC,STK4192-MK2	C73	87-010-101-089		CAP,E 220-16 SME
TRANSISTOR							
	87-026-462-089		TR,2SC1740S(RS)	C74	87-010-381-089		CAP,E 330-16 SME
	89-406-555-089		TR,2SD655E	C75	87-010-374-089		CAP,E 47-10
	89-113-187-889		TR,2SA1318TU	C76	87-010-374-089		CAP,E 47-10
	89-213-702-019		TR,2SB1370E	C79	87-018-127-089		CAP,TC-U 470P-50 B
	87-026-463-089		TR,2SA933S(RS)	C101	87-010-404-089		CAP,E 4.7-50 SME
	89-318-155-089		TR,2SC1815GR				
	87-026-245-089		TR,DTC114ES	C102	87-010-404-089		CAP,E 4.7-50 SME
	89-110-155-089		TR,2SA1015GR	C103	87-010-406-089		CAP,E 22-50 SME
	89-332-665-089		TR,2SC3266GR	C104	87-010-374-089		CAP,E 47-10
	87-026-215-089		TR,DTC114YS	C105	87-010-263-089		CAP,E 100-10 SME 5X11
	87-026-500-089		TR,2SD2144SUV(TP)	C106	87-010-221-089		CAP,E 470-10
	89-333-317-889		TR,2SC3331TU				
	87-026-658-010		FET,2SJ176	C107	87-018-119-089		CAP,TC-U 100P-50 B<EE,K,EEZ,EZ>
	89-510-940-010		FET,2SK1094	C108	87-018-119-089		CAP,TC-U 100P-50 B<EE,K,EEZ,EZ>
	87-026-219-089		TR,DTA144ES	C141	87-010-406-089		CAP,E 22-50 SME
	87-026-216-089		TR,DTA124ES	C191	87-010-405-089		CAP,E 10-50 SME
	89-322-405-089		TR,2SC2240GR	C192	87-010-405-089		CAP,E 10-50 SME
DIODE							
	87-002-597-069		DIODE,DBF 60C-K13	C193	87-010-405-089		CAP,E 10-50 SME
	87-020-691-089		DIODE,1SS132 T-72	C194	87-010-405-089		CAP,E 10-50 SME
	87-001-574-089		DIODE,1SR139-200 T31	C198	87-010-405-089		CAP,E 10-50 SME
	87-002-743-089		ZENER,MTZJ33B	C199	87-010-405-089		CAP,E 10-50 SME
	87-001-785-010		DIODE,SB360F	C200	87-010-405-089		CAP,E 10-50 SME
	87-027-606-089		ZENER,HZ7C2L				
	87-001-911-089		ZENER,UTZJ4.7A(TAPG)	C201	87-018-134-089		CAP,TC-U 0.01-16 Y
	87-001-559-089		DIODE,ISS131(T-72)	C202	87-018-134-089		CAP,TC-U 0.01-16 Y
	87-001-916-089		ZENER,UTZJ10B	C250	87-010-401-089		CAP,E 1-50 SME
	87-002-430-089		ZENER,UTZJ8.2C	C251	87-010-101-089		CAP,E 220-16 SME
	87-027-661-089		ZENER,HZ30-2L	C252	87-010-401-089		CAP,E 1-50 SME
	87-017-096-089		ZENER,HZS6A3				
	87-001-913-089		ZENER,UTZ5.6B	C253	87-010-401-089		CAP,E 1-50 SME
	87-001-915-089		ZENER,UTZJ6.8A	C254	87-010-405-089		CAP,E 10-50 SME
	87-001-912-089		ZENER,UTZJ5.1B	C255	87-010-405-089		CAP,E 10-50 SME
	87-017-091-089		ZENER,HZS5C1<HE,HK>	C256	87-010-401-089		CAP,E 1-50 SME
				C257	87-010-401-089		CAP,E 1-50 SME
MAIN C.B							
C1	87-018-214-089		CAP,TC-U 0.1-50 F	C258	87-010-404-089		CAP,E 4.7-50 SME
C2	87-018-214-089		CAP,TC-U 0.1-50 F<HE,LH,HK>	C259	87-010-404-089		CAP,E 4.7-50 SME
C4	87-016-160-099		CAP,E 5600-56 BSN	C260	87-010-400-089		CAP,E 0.47-50 SME
C5	87-016-160-099		CAP,E 5600-56 BSN	C261	87-010-400-089		CAP,E 0.47-50 SME
				C262	87-010-404-089		CAP,E 4.7-50 SME
				C263	87-010-404-089		CAP,E 4.7-50 SME
				C264	87-010-404-089		CAP,E 4.7-50 SME
				C265	87-010-405-089		CAP,E 10-50 SME
				C266	87-010-405-089		CAP,E 10-50 SME
				C267	87-010-405-089		CAP,E 10-50 SME
				C269	87-018-121-089		CAP,TC-U 150P-50 B
				C270	87-018-121-089		CAP,TC-U 150P-50 B
				C273	87-018-134-089		CAP,TC-U 0.01-16 Y
				C274	87-018-134-089		CAP,TC-U 0.01-16 Y
				C275	87-018-198-089		CAP,TC-U 2700P-16 X
				C276	87-018-198-089		CAP,TC-U 2700P-16 X
				C277	87-018-122-089		CAP,TC-U 180P-50 B
				C278	87-018-122-089		CAP,TC-U 180P-50 B
				C281	87-010-544-089		CAP,E 0.1-50

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C282	87-010-544-089	CAP,E 0.1-50	
C283	87-010-545-089	CAP,E 0.22-50 SME	
C284	87-010-545-089	CAP,E 0.22-50 SME	
C285	87-010-404-089	CAP,E 4.7-50 SME	
C286	87-010-405-089	CAP,E 10-50 SME	
C287	87-010-405-089	CAP,E 10-50 SME	
C288	87-010-405-089	CAP,E 10-50 SME	
C289	87-010-401-089	CAP,E 1-50 SME	
C290	87-010-404-089	CAP,E 4.7-50 SME	
C291	87-018-195-089	CAP,TC-U 1200P-16 X	
C292	87-018-195-089	CAP,TC-U 1200P-16 X	
C293	87-018-128-089	CAP,TC-U 560P-50 B	
C294	87-018-128-089	CAP,TC-U 560P-50 B	
C301	87-018-121-089	CAP,TC-U 150P-50 B	
C302	87-018-121-089	CAP,TC-U 150P-50 B	
C360	87-010-404-089	CAP,E 4.7-50 SME	
C365	87-018-115-089	CAP,TC-U 47P-50 SL	
C403	87-018-127-089	CAP,TC-U 470P-50 B	
C404	87-018-127-089	CAP,TC-U 470P-50 B	
C501	87-010-404-089	CAP,E 4.7-50 SME	
C502	87-010-404-089	CAP,E 4.7-50 SME	
C505	87-018-123-089	CAP,TC-U 220P-50 B	
C506	87-018-123-089	CAP,TC-U 220P-50 B	
C507	87-010-404-089	CAP,E 4.7-50 SME	
C508	87-010-404-089	CAP,E 4.7-50 SME	
C509	87-018-127-089	CAP,TC-U 470P-50 B	
C510	87-018-127-089	CAP,TC-U 470P-50 B	
C511	87-010-402-089	CAP,E 2.2-50 SME	
C512	87-010-402-089	CAP,E 2.2-50 SME	
C515	87-010-546-089	CAP,E 0.33-50 SME	
C516	87-010-546-089	CAP,E 0.33-50 SME	
C519	87-010-544-089	CAP,E 0.1-50	
C520	87-010-544-089	CAP,E 0.1-50	
C525	87-018-203-089	CAP,TC-U 8200P-16 Y	
C526	87-018-203-089	CAP,TC-U 8200P-16 Y	
C529	87-018-199-089	CAP,TC-U 3300P-16 X	
C530	87-018-199-089	CAP,TC-U 3300P-16 X	
C533	87-018-131-089	CAP,TC-U 1000P-50 B	
C534	87-018-131-089	CAP,TC-U 1000P-50 B	
C535	87-018-199-089	CAP,TC-U 3300P-16 X	
C536	87-018-199-089	CAP,TC-U 3300P-16 X	
C537	87-018-127-089	CAP,TC-U 470P-50 B	
C538	87-018-127-089	CAP,TC-U 470P-50 B	
C539	87-010-260-089	CAP,E 47-25 SME	
C540	87-010-260-089	CAP,E 47-25 SME	
C541	87-010-260-089	CAP,E 47-25 SME	
C543	87-018-131-089	CAP,TC-U 1000P-50 B	
C544	87-018-131-089	CAP,TC-U 1000P-50 B	
C601	87-018-127-089	CAP,TC-U 470P-50 B	
C602	87-010-405-089	CAP,E 10-50 SME	
C630	87-010-401-089	CAP,E 1-50 SME	
C631	87-018-201-089	CAP,TC-U 5600P-16 X	
C632	87-018-131-089	CAP,TC-U 1000P-50 B	
C634	87-010-374-089	CAP,E 47-10	
C635	87-018-214-089	CAP,TC-U 0.1-50 F	
C636	87-018-214-089	CAP,TC-U 0.1-50 F	
C638	87-018-201-089	CAP,TC-U 5600P-16 X	
C639	87-018-131-089	CAP,TC-U 1000P-50 B	
C640	87-010-401-089	CAP,E 1-50 SME	
C641	87-018-201-089	CAP,TC-U 5600P-16 X	
C642	87-010-374-089	CAP,E 47-10	
C644	87-010-405-089	CAP,E 10-50 SME	
C645	87-010-112-089	CAP,E 100-16 SME	
C646	87-018-119-089	CAP,TC-U 100P-50 B	
C647	87-018-119-089	CAP,TC-U 100P-50 B	
C648	87-010-544-089	CAP,E 0.1-50	
C649	87-010-406-089	CAP,E 22-50 SME	
C670	87-010-405-089	CAP,E 10-50 SME	
C671	87-010-400-089	CAP,E 0.47-50 SME	
C681	87-016-072-089	CAP,E 0.47-50 FX	

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C682	87-016-072-089	CAP,E 0.47-50 FX	
C683	87-010-401-089	CAP,E 1-50 SME	
C684	87-010-401-089	CAP,E 1-50 SME	
C685	87-010-400-089	CAP,E 0.47-50 SME	
C686	87-010-400-089	CAP,E 0.47-50 SME	
C687	87-010-401-089	CAP,E 1-50 SME	
C688	87-010-401-089	CAP,E 1-50 SME	
C689	87-016-096-089	CAP,E 47-16 FX	
C690	87-016-096-089	CAP,E 47-16 FX	
C691	87-010-405-089	CAP,E 10-50 SME	
C692	87-010-405-089	CAP,E 10-50 SME	
C695	87-010-400-089	CAP,E 0.47-50 SME	
C696	87-010-401-089	CAP,E 1-50 SME	
C697	87-010-403-089	CAP,E 3.3-50 SME	
C698	87-010-403-089	CAP,E 3.3-50 SME	
C699	87-010-544-089	CAP,E 0.1-50	
C701	87-010-392-089	CAP,E 33-35 SME	
C702	87-010-392-089	CAP,E 33-35 SME	
C703	87-018-128-089	CAP,TC-U 560P-50 B	
C704	87-018-128-089	CAP,TC-U 560P-50 B	
C707	87-018-121-089	CAP,TC-U 150P-50 B<EE,K,EEZ,EZ>	
C708	87-018-121-089	CAP,TC-U 150P-50 B<EE,K,EEZ,EZ>	
C758	87-010-410-089	CAP,E 330-50 SME	
C759	87-010-374-089	CAP,E 47-10	
C760	87-010-374-089	CAP,E 47-10	
C761	87-018-104-089	CAP,TC-U 10P-50 SL	
C762	87-018-104-089	CAP,TC-U 10P-50 SL	
C763	87-010-260-089	CAP,E 47-25 SME	
C764	87-010-260-089	CAP,E 47-25 SME	
C765	87-018-119-089	CAP,TC-U 100P-50 B<HE,LH,HK>	
C765	87-018-125-089	CAP,TC-U 330P-50 B<EE,K,EEZ,EZ>	
C766	87-018-119-089	CAP,TC-U 100P-50 B<HE,LH,HK>	
C766	87-018-125-089	CAP,TC-U 330P-50 B<EE,K,EEZ,EZ>	
C771	87-018-202-089	CAP,TC-U 6800P-16 X<EE,K,EEZ,EZ>	
C772	87-018-202-089	CAP,TC-U 6800P-16 X<EE,K,EEZ,EZ>	
C773	87-018-134-089	CAP,TC-U 0.01-16 Y	
C800	87-018-134-089	CAP,TC-U 0.01-16 Y	
C900	87-018-119-089	CAP,TC-U 100P-50 B	
C901	87-018-115-089	CAP,TC-U 47P-50 B	
C902	87-018-115-089	CAP,TC-U 47P-50 B	
C903	87-018-133-089	CAP,TC-U 4700P-16 X	
C904	87-018-133-089	CAP,TC-U 4700P-16 X	
CB1	87-026-584-010	PROTECTOR,R3U3T100A<EXCEPT LH>	
EMI1	87-008-372-019	FLTR,EMI BL 01RN1<EE,K,EEZ,EZ>	
J280	87-099-277-019	JACK,6.3 W/S	
J281	87-099-064-019	JACK,6.3 W/S	
J283	87-099-064-019	JACK,6.3 W/S	
J750	81-VP1-634-019	JACK,PIN 3P	
J751	81-VP1-634-019	JACK,PIN 3P	
J752	81-VP1-634-019	JACK,PIN 3P	
J753	87-009-393-019	JACK,PIN 2P EARTH	
J759	84-VP2-630-019	JACK,PIN 3P B.W.R	
J760	87-033-225-019	TERMINAL,SP-4P N	
L642	87-003-152-089	COIL,100UH	
L751	87-005-366-019	COIL,1UH<EE,K,EEZ,EZ>	
L752	87-005-366-019	COIL,1UH<EE,K,EEZ,EZ>	
R29	87-025-473-089	RES,NF 10-1/4W J	
R40	87-022-050-089	RESIS,METAL 1W-0.22J	
R45	87-022-050-089	RESIS,METAL 1W-0.22J	
R734	87-025-467-089	RES,NF 1-1/4 WJ	
R777	87-022-050-089	RESIS,METAL 1W-0.22J	
R778	87-022-050-089	RESIS,METAL 1W-0.22J	
R779	87-022-050-089	RESIS,METAL 1W-0.22J	
R780	87-022-050-089	RESIS,METAL 1W-0.22J	
RY1	87-045-285-010	RELAY,VB12MB	
RY2	87-045-382-019	RELAY,OUAZ-SH-112L	
VR141	84-VP2-632-019	VR,50KBX2 RK1210	
VR281	81-VP1-622-019	VR,10KA RK11K112	
VR282	81-VP1-622-019	VR,10KA RK11K112	
VR372	81-VP1-627-019	VOL,100KW RK11K112	

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
WH101	85-VP2-618-119		CONN ASSY,10P TSL
X630	87-030-172-019		VIB,CER CSB1000J
FRONT C.B			
C1	87-010-071-089		CAP,E 1-50 5L
C2	87-010-071-089		CAP,E 1-50 5L
C3	87-010-415-089		CAP,E 10-50 5L
C5	87-010-550-049		CAP,E 100-6.3 GAS
C15	87-018-134-089		CAP,TC-U 0.01-16 Y
C16	87-018-134-089		CAP,TC-U 0.01-16 Y
C19	87-018-131-089		CAP,TC-U 1000P-50 B
C21	87-010-071-089		CAP,E 1-50 5L
C25	87-018-134-089		CAP,TC-U 0.01-16 Y
C33	87-018-127-089		CAP,TC-U 470P-50 B
C34	87-018-209-089		CAP,TC-U 0.1-50 F
C111	87-018-134-089		CAP,TC-U 0.01-16 Y
C151	87-018-134-089		CAP,TC-U 0.01-16 Y
C153	87-018-134-089		CAP,TC-U 0.01-16 Y
C160	87-010-263-089		CAP,E 100-10 SME 5X11
C382	87-018-202-089		CAP,TC-U 6800P-16 X<HE,HK>
C383	87-018-195-089		CAP,TC-U 1200P-16 X<HE,HK>
C385	87-010-553-049		CAP,E 47-16 GAS<HE,HK>
C386	87-010-400-049		CAP,E 0.47-50 SME<HE,HK>
C387	87-010-400-049		CAP,E 0.47-50 SME<HE,HK>
C389	87-018-201-089		CAP,TC-U 5600P-16 X<HE,HK>
C390	87-018-195-089		CAP,TC-U 1200P-16 X<HE,HK>
C391	87-010-490-049		CAP,E 1-50 GAS<HE,HK>
C393	87-010-263-089		CAP,E 100-10 SME 5X11<HE,HK>
C394	87-018-209-089		CAP,TC-U 0.1-50 F<HE,HK>
C395	87-018-130-089		CAP,TC-U 820P-50 B<HE,HK>
C396	87-018-130-089		CAP,TC-U 820P-50 B<HE,HK>
C397	87-010-405-089		CAP,E 10-50 SME<HE,HK>
CSA1	87-008-497-089		CERA LOCK CST7.68MTW
FL1	82-VP3-615-019		FL,BJ189GK
L1	87-003-098-089		COIL,2.2UH
L2	87-003-098-089		COIL,2.2UH
L5	87-003-102-089		COIL,10UH
L301	87-005-490-089		COIL,270UH J FLR50<HE,HK>
SW1	87-036-215-089		SW,TACT EVQ21404M
SW2	87-036-215-089		SW,TACT EVQ21404M
SW3	87-036-215-089		SW,TACT EVQ21404M
SW4	87-036-215-089		SW,TACT EVQ21404M
SW5	87-036-215-089		SW,TACT EVQ21404M
SW6	87-036-215-089		SW,TACT EVQ21404M
SW7	87-036-215-089		SW,TACT EVQ21404M
SW8	87-036-215-089		SW,TACT EVQ21404M
SW9	87-036-215-089		SW,TACT EVQ21404M
SW10	87-036-215-089		SW,TACT EVQ21404M
SW11	87-036-215-089		SW,TACT EVQ21404M
SW12	87-036-215-089		SW,TACT EVQ21404M
SW13	87-036-215-089		SW,TACT EVQ21404M
SW14	87-036-215-089		SW,TACT EVQ21404M
SW15	87-036-215-089		SW,TACT EVQ21404M
SW16	87-036-215-089		SW,TACT EVQ21404M
SW17	87-036-215-089		SW,TACT EVQ21404M
SW18	87-036-215-089		SW,TACT EVQ21404M
SW19	87-036-215-089		SW,TACT EVQ21404M
SW20	87-036-215-089		SW,TACT EVQ21404M
SW21	87-036-215-089		SW,TACT EVQ21404M
SW22	87-036-215-089		SW,TACT EVQ21404M
SW23	87-036-215-089		SW,TACT EVQ21404M
SW24	87-036-215-089		SW,TACT EVQ21404M
SW25	87-036-215-089		SW,TACT EVQ21404M
SW26	87-036-215-089		SW,TACT EVQ21404M
SW27	87-036-215-089		SW,TACT EVQ21404M
VR370	82-VP2-636-019		VR,SL 10K B<HE,HK>

MVR C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C201	87-010-405-089		CAP,E 10-50 SME
C202	87-010-405-089		CAP,E 10-50 SME
C203	87-010-404-089		CAP,E 4.7-50 SME
C204	87-010-404-089		CAP,E 4.7-50 SME
C205	87-010-404-089		CAP,E 4.7-50 SME
C206	87-010-404-089		CAP,E 4.7-50 SME
VR1	82-VP2-639-019		VR,50KBX2 MOTOR(SH)
AC1 C.B			
△	87-033-147-019		CLAMP FUSE<HE,LH,HK>
△	82-304-743-019		TERMINAL,1P
△ F1	87-035-367-019		FUSE,T3.15A 250V<HE,LH,HK>
AC2 C.B			
△	87-033-213-089		CLAMP FUSE SMK
△ F2	87-035-369-019		FUSE,5A 250V TE
△ F3	87-035-369-019		FUSE,5A 250V TE
△ PT101	85-VP2-614-019		PT,5VP-2 E<EE,K,EEZ,EZ>
△ PT101	85-VP2-613-019		PT,5VP-2 H<HE,LH,HK>
R96	87-022-200-089		RES,METAL 0.56-1W
R97	87-022-200-089		RES,METAL 0.56-1W
AC SW C.B			
△ SW50	87-036-173-019		SW,SL 2-2-4 SDKG<HE,LH,HK>

# IC DESCRIPTION

IC, CXP82316-148Q

Pin No.	Pin Name	I/O	Description
1	I-HOLD	I	HOLD mode at "Low" and normal mode at "High".
2	I-REMOTE	I	Remote control signal input.
3 ~ 5	NC	-	Not used.
6	O-CS (DSP)	O	Data request output.
7	NC	-	Not used.
8	O-CLK	O	Serial data clock signal. (4094 CLK pin)
9	O-CLK (GEQ)	O	Clock signal output for "LEVEL CONT. VR" IC NJU7305L.
10	O-DATA	O	Serial data output.
11	I/O-SERIAL	I/O	Serial signal for system controller (8-bit).
12	O-STB	O	Strobe signal output. (4094 STB pin)
13	NC	-	Not used.
14	O-S16	O	FL display segment output.
15	O-S5		
16	O-S28		
17	O-S17		
18	O-S6		
19	O-S29		
20	I-INITIAL	I	Initialize signal.
21	O-VOL LED	O	VOL LED display output.
22	I-KEY 1	I	Key A/D input.
23	I-KEY 2		
24	NC	-	Not used.
25	I-KEY 4	I	Key A/D input.
26	O-FS RESET	O	Output to reset output of IC BA3826S.
27	I-SPE	I	Spectrum analyzer display input.
28	I-MIC	I	MIC signal input. Vocal fader turns "ON" when this input is more than 3.4V in vocal fader mode.
29	NC	-	Not used.
30	RESET	I	Reset signal for microcomputer.
31	EXTAL	-	Crystal connection terminal for oscillating system clock. (7.68MHz)
32	XTAL		
33	VSS	-	Ground.
34 ~ 60	O-S1 ~ O-S4	O	FL display segment output. Pins 37 ~ 39 are also used for band selection of spectrum analyzer.
	O-S7 ~ O-S15		
	O-S18 ~ O-S27		
	O-S30 ~ O-S 33		
61 ~ 70	O-G10 ~ O-G1	O	FL display grid drive signal.
71	VFDP	-	Negative power supply (-32V).
72	VDD	-	Power supply (+5V).
73	NC	-	Not used. (Connected to VDD)

Pin No.	Pin Name	I/O	Description
74	VOL UP	O	MOTOR VOL UP output.
75	VOL DOWN	O	MOTOR VOL DOWN output.
76	O-MUTE	O	Audio MUTE output.
77	O-POWER	O	Power ON/OFF control output.
78	I-GRID	I	GRID input for microcomputer extension.
79	I-G1	I	G1 input for microcomputer extension.
80	NC	-	Not used.

## TRANSISTOR ILLUSTRATION



E C B

2SC1815  
2SC2240  
2SC3266  
2SD655



E C B

2SA1015



E C B

2SA933  
2SC1740  
2SD2144  
DTA124ES  
DTA144ES  
DTC114ES  
DTC114YS



E C B

2SA1318  
2SC3331



B C E

2SB1370

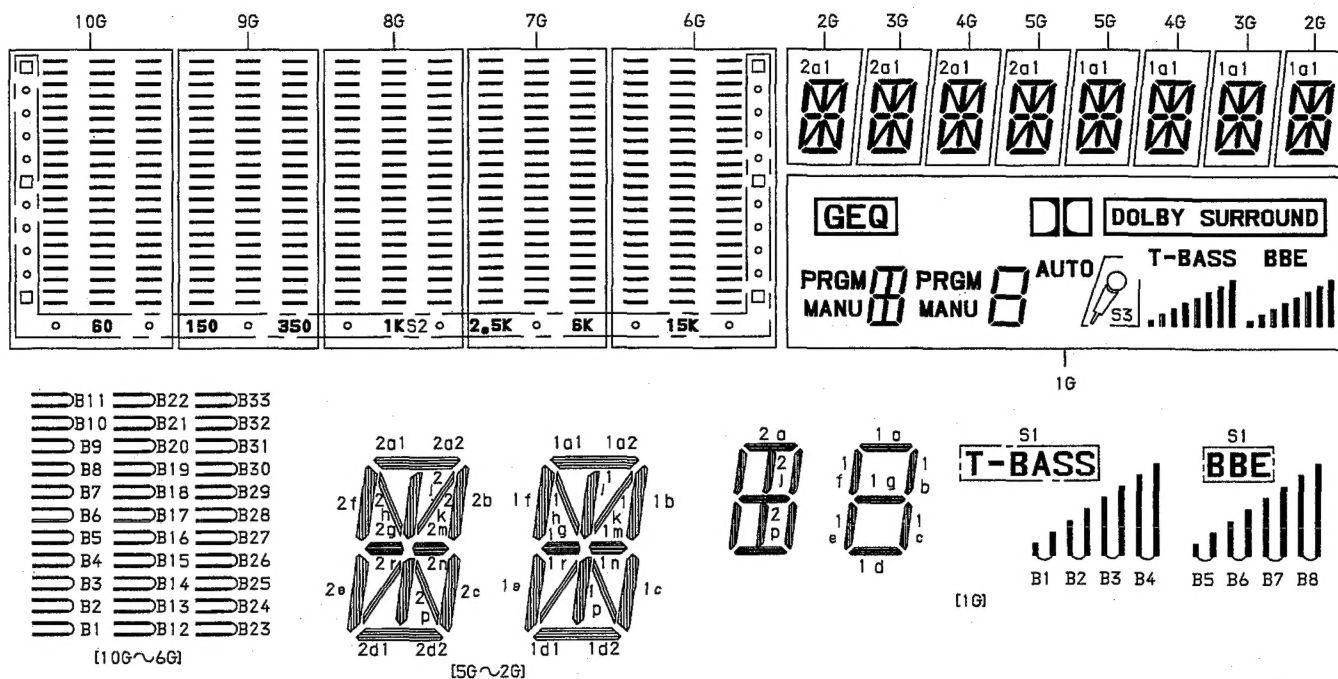


G D S

2SJ176  
2SK1094

# FL (BJ189GK) GRID ASSIGNMENT / ANODE CONNECTION

## GRID ASSIGNMENT



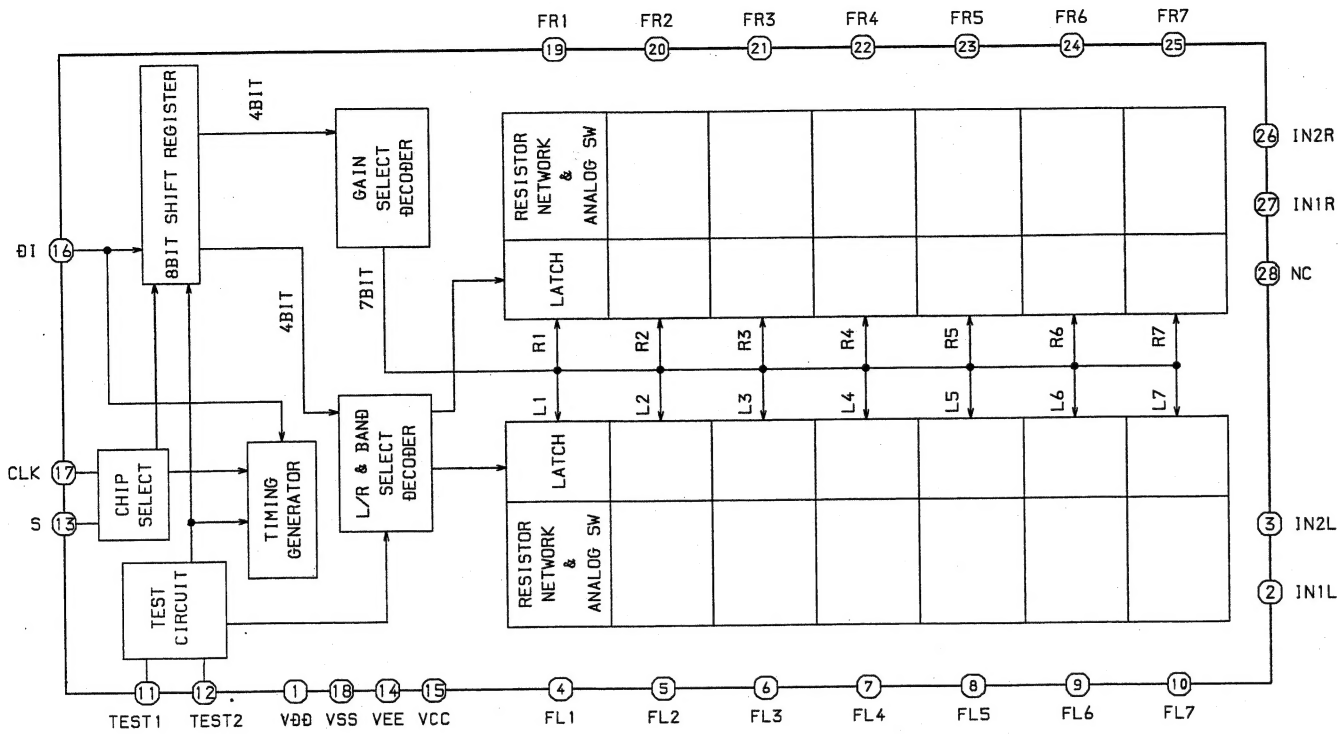
## ANODE CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B1	B1	B1	B1	B1	1a2	1a2	1a2	1a2	B6
P2	B2	B2	B2	B2	B2	1k	1k	1k	1k	B3
P3	B3	B3	B3	B3	B3	1g	1g	1g	1g	SURROUND
P4	B4	B4	B4	B4	B4	1e	1e	1e	1e	AUTO
P5	B5	B5	B5	B5	B5	1p	1p	1p	1p	1a, 1d
P6	B6	B6	B6	B6	B6	2d2	2d2	2d2	2d2	GEQ
P7	B7	B7	B7	B7	B7	2n	2n	2n	2n	2b
P8	B8	B8	B8	B8	B8	2c	2c	2c	2c	-
P9	B9	B9	B9	B9	B9	2f	2f	2f	2f	2d
P10	B10	B10	B10	B10	B10	2h	2h	2h	2h	PRGM [GEQ]
P11	B11	B11	B11	B11	B11	2a1	2a1	2a1	2a1	1f
P12	B12	B12	B12	B12	B12	1a1	1a1	1a1	1a1	B7
P13	B13	B13	B13	B13	B13	1h	1h	1h	1h	B4
P14	B14	B14	B14	B14	B14	1f	1f	1f	1f	B1
P15	B15	B15	B15	B15	B15	1c	1c	1c	1c	DOLBY
P16	B16	B16	B16	B16	B16	1n	1n	1n	1n	1b
P17	B17	B17	B17	B17	B17	1d2	1d2	1d2	1d2	1e
P18	B18	B18	B18	B18	B18	2p	2p	2p	2p	2c
P19	B19	B19	B19	B19	B19	2e	2e	2e	2e	PRGM
P20	B20	B20	B20	B20	B20	2g	2g	2g	2g	2g
P21	B21	B21	B21	B21	B21	2k	2k	2k	2k	2f
P22	B22	B22	B22	B22	B22	2a2	2a2	2a2	2a2	-
P23	B23	B23	B23	B23	B23	-	-	-	-	B8
P24	B24	B24	B24	B24	B24	1j	1j	1j	1j	B5
P25	B25	B25	B25	B25	B25	1b	1b	1b	1b	B2
P26	B26	B26	B26	B26	B26	1m	1m	1m	1m	S3
P27	B27	B27	B27	B27	B27	1r	1r	1r	1r	1c
P28	B28	B28	B28	B28	B28	1d1	1d1	1d1	1d1	1g
P29	B29	B29	B29	B29	B29	2d1	2d1	2d1	2d1	2a
P30	B30	B30	B30	B30	B30	2r	2r	2r	2r	MANU
P31	B31	B31	B31	B31	B31	2m	2m	2m	2m	2j, 2p
P32	B32	B32	B32	B32	B32	2b	2b	2b	2b	2e
P33	B33	B33	B33	B33	B33	2j	2j	2j	2j	MANU [GEQ]
P34	S2	S2	S2	S2	S2	-	-	-	-	-
P35	-	-	-	-	-	-	-	-	-	GEQ S1

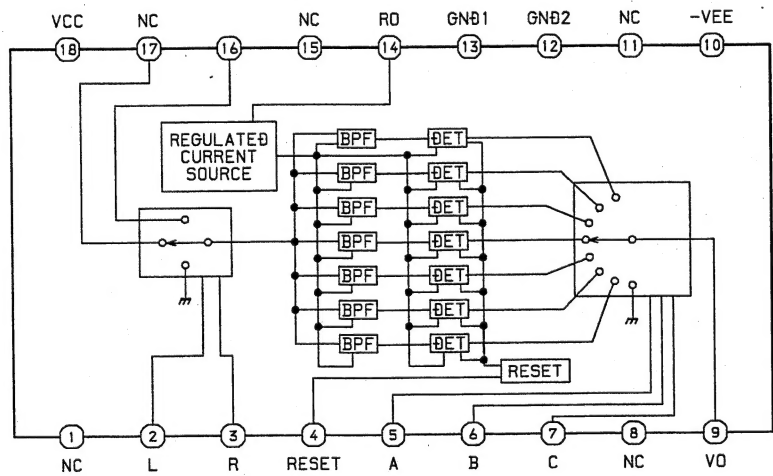


IC BLOCK DIAGRAM – 1

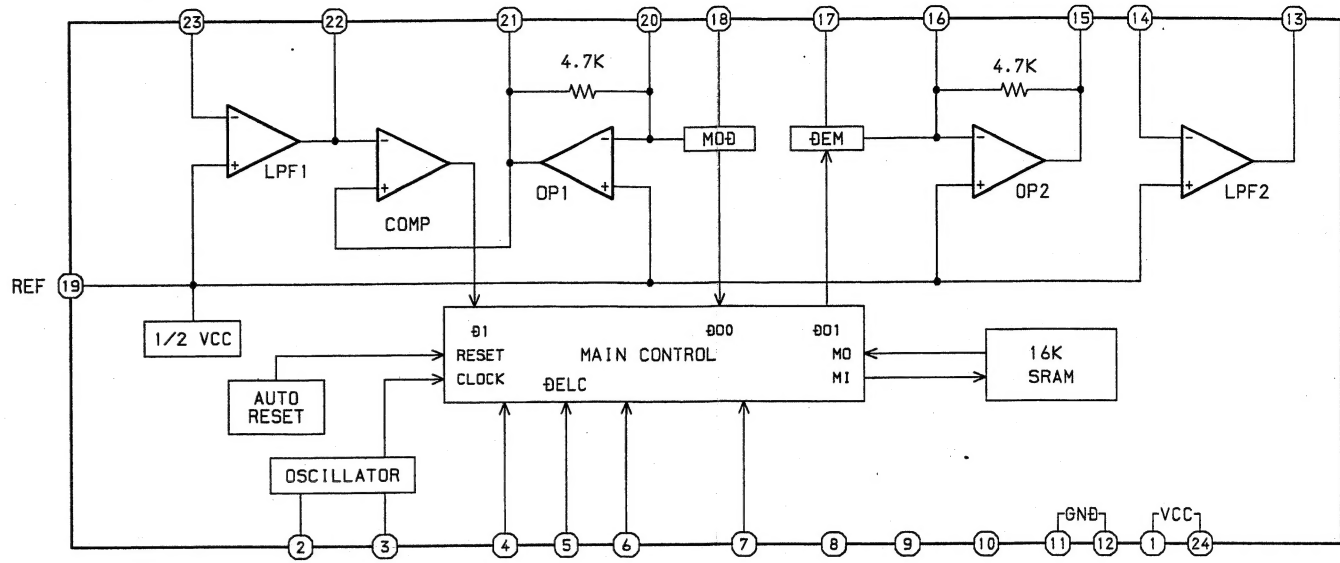
IC, NJU7305L



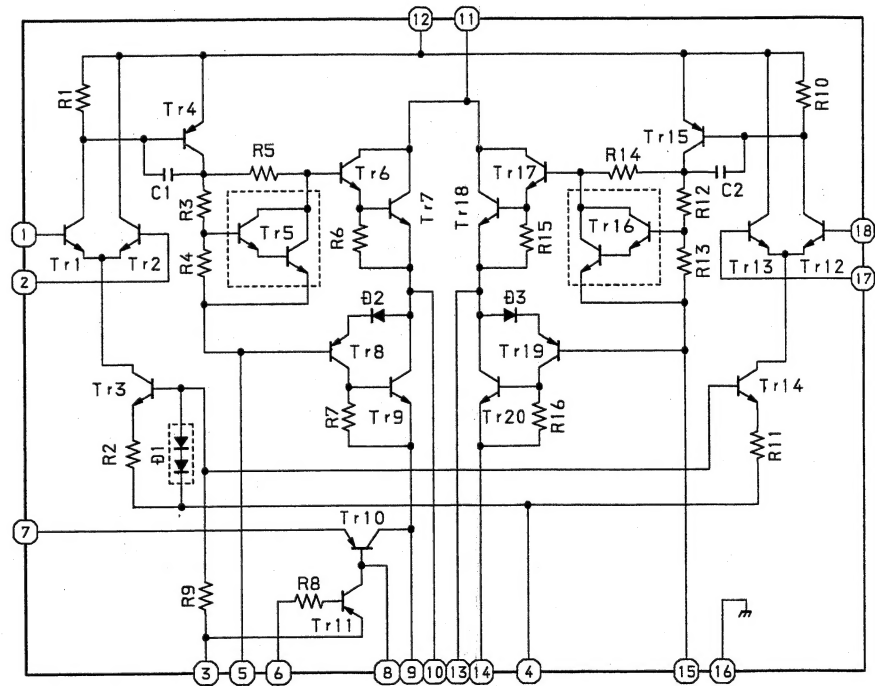
IC, BA3826S



IC, M65830P  
IC, M65830AFP

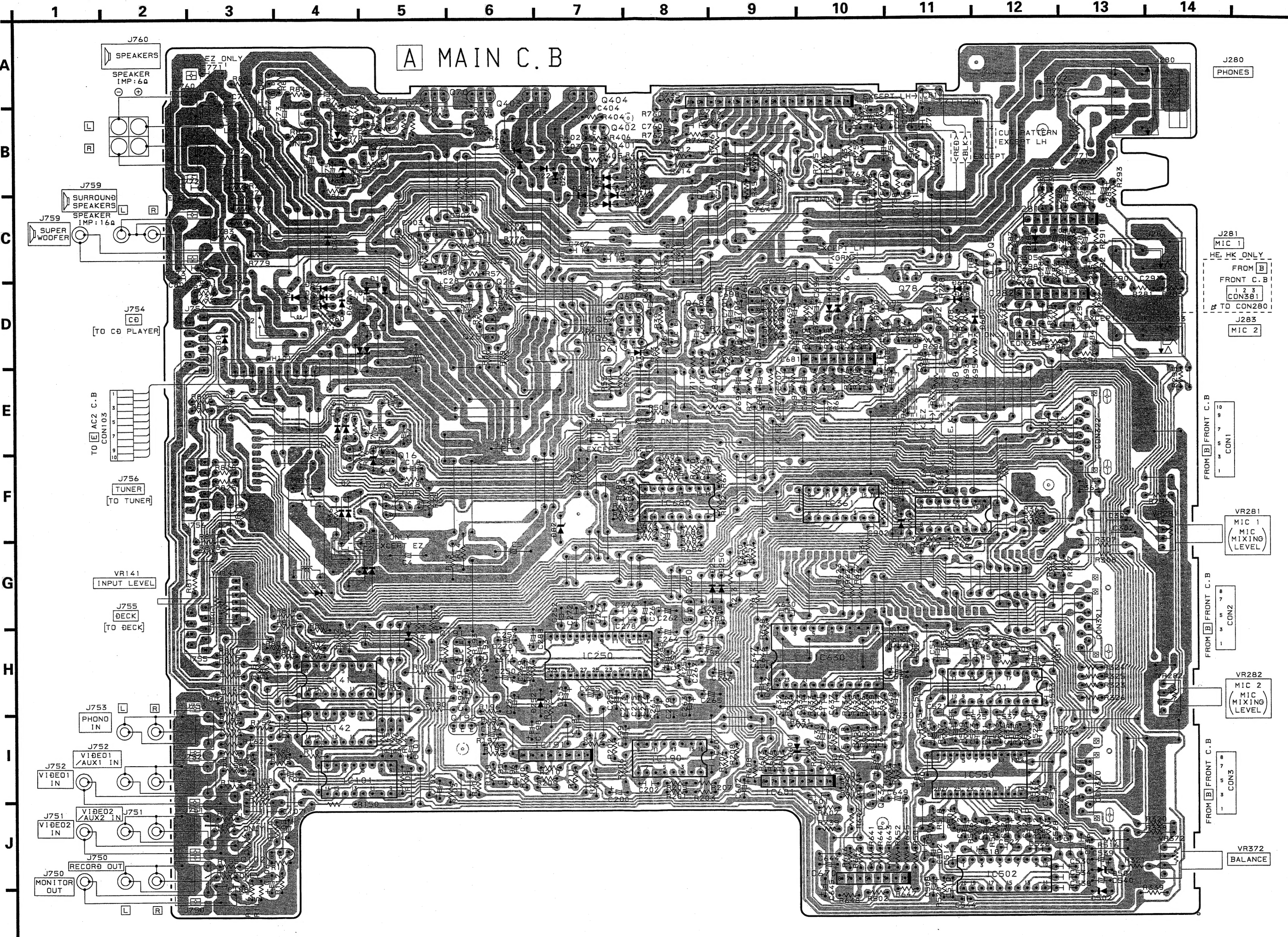


IC, STK4192-MK2



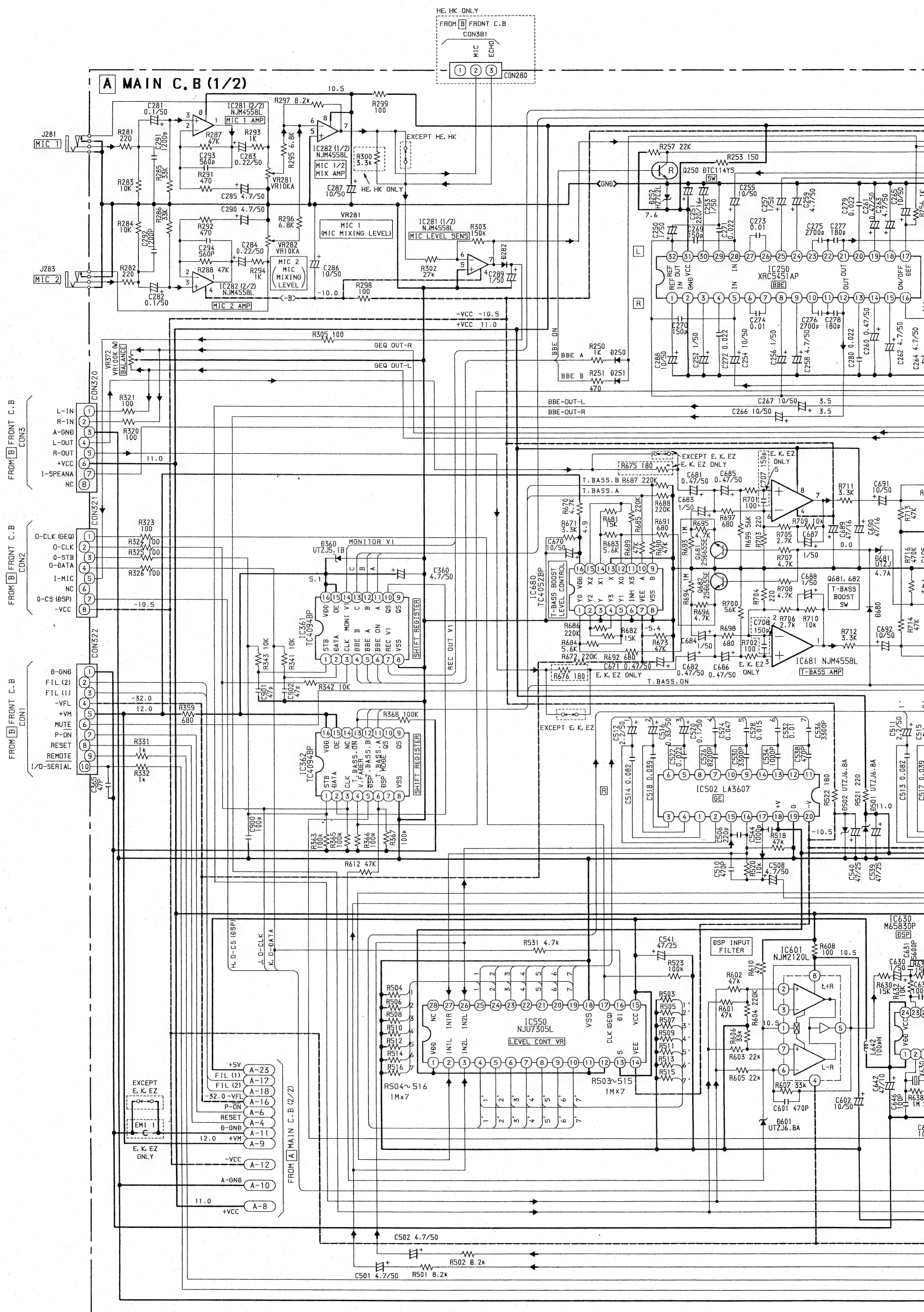


WIRING - 1 (MAIN)





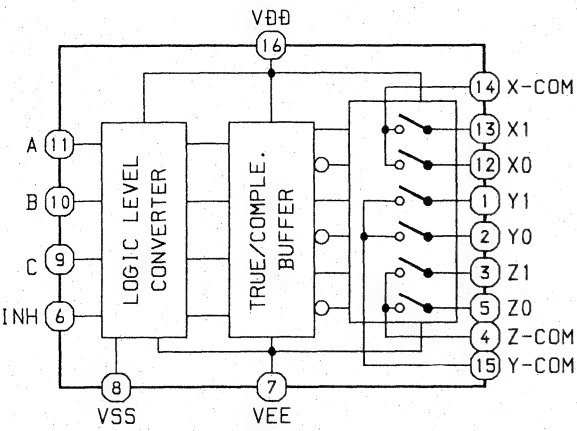
SCHEMATIC DIAGRAM – 1 (MAIN)



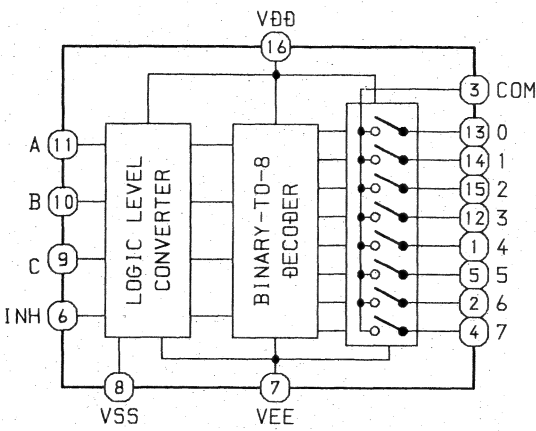


IC BLOCK DIAGRAM - 2

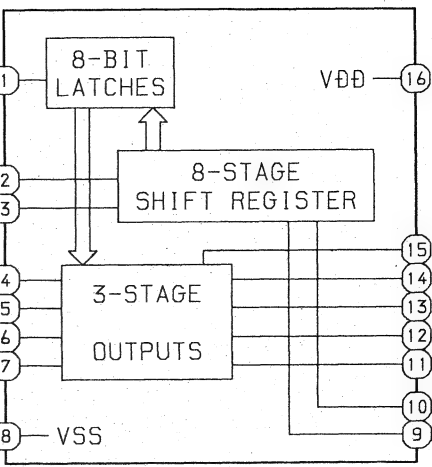
IC, TC4053BP



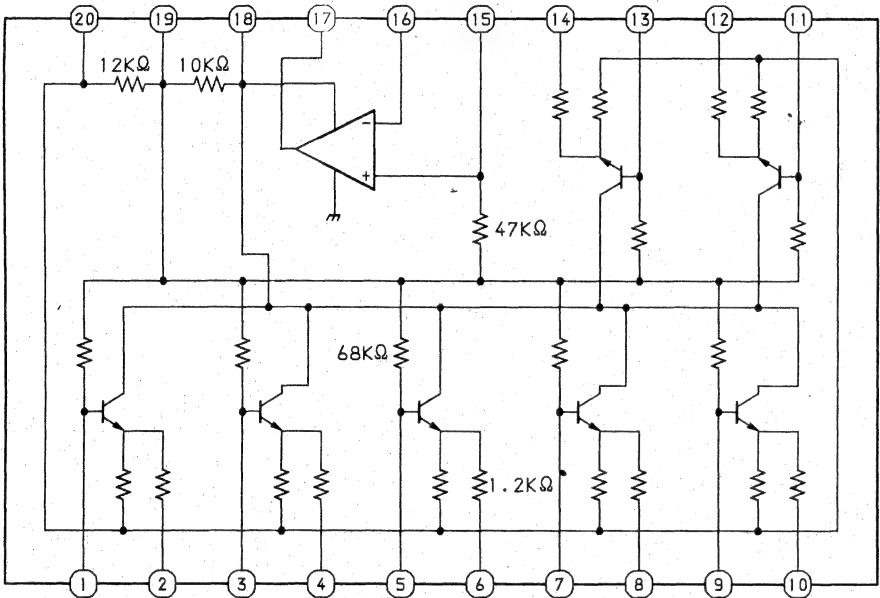
IC, TC4051BP



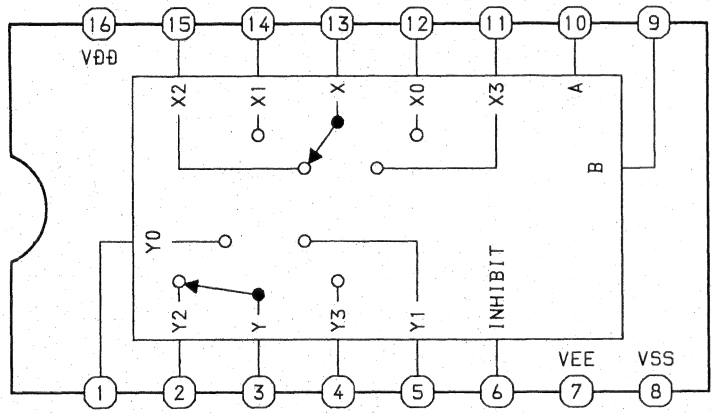
IC, TC4094BP



IC, LA3607



IC, TC4052BP

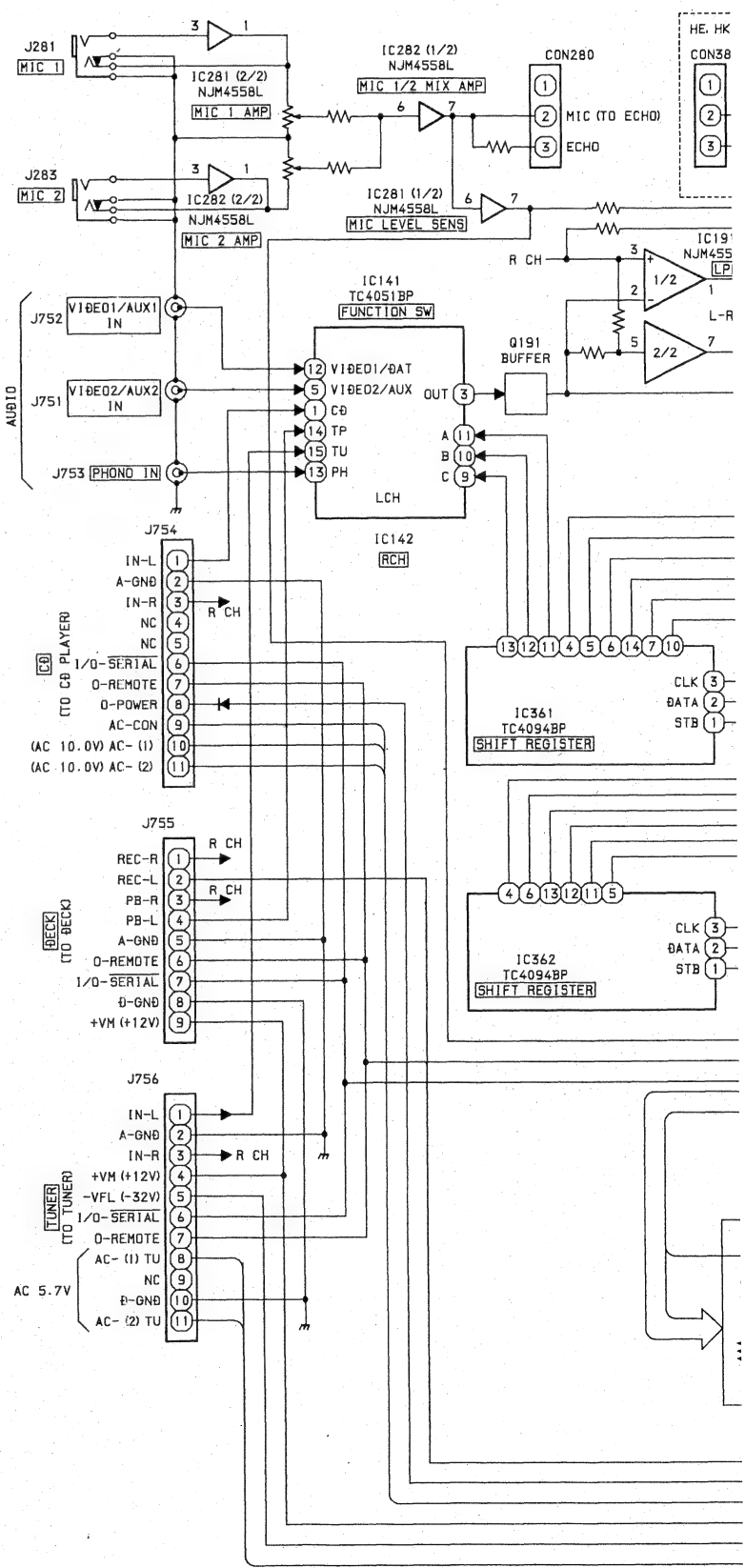


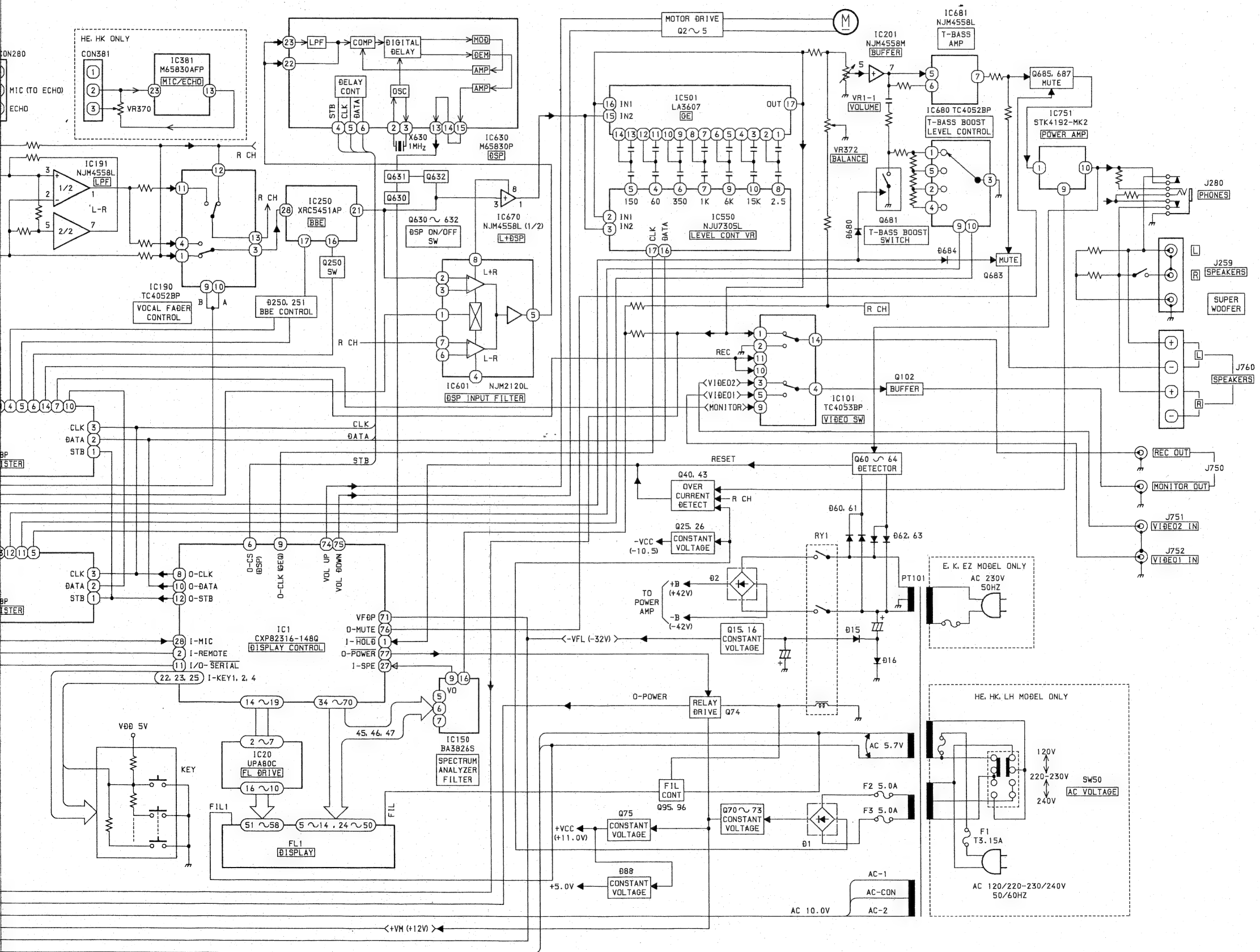
TRUTH TABLE

CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A	Y0	X0
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	—	—

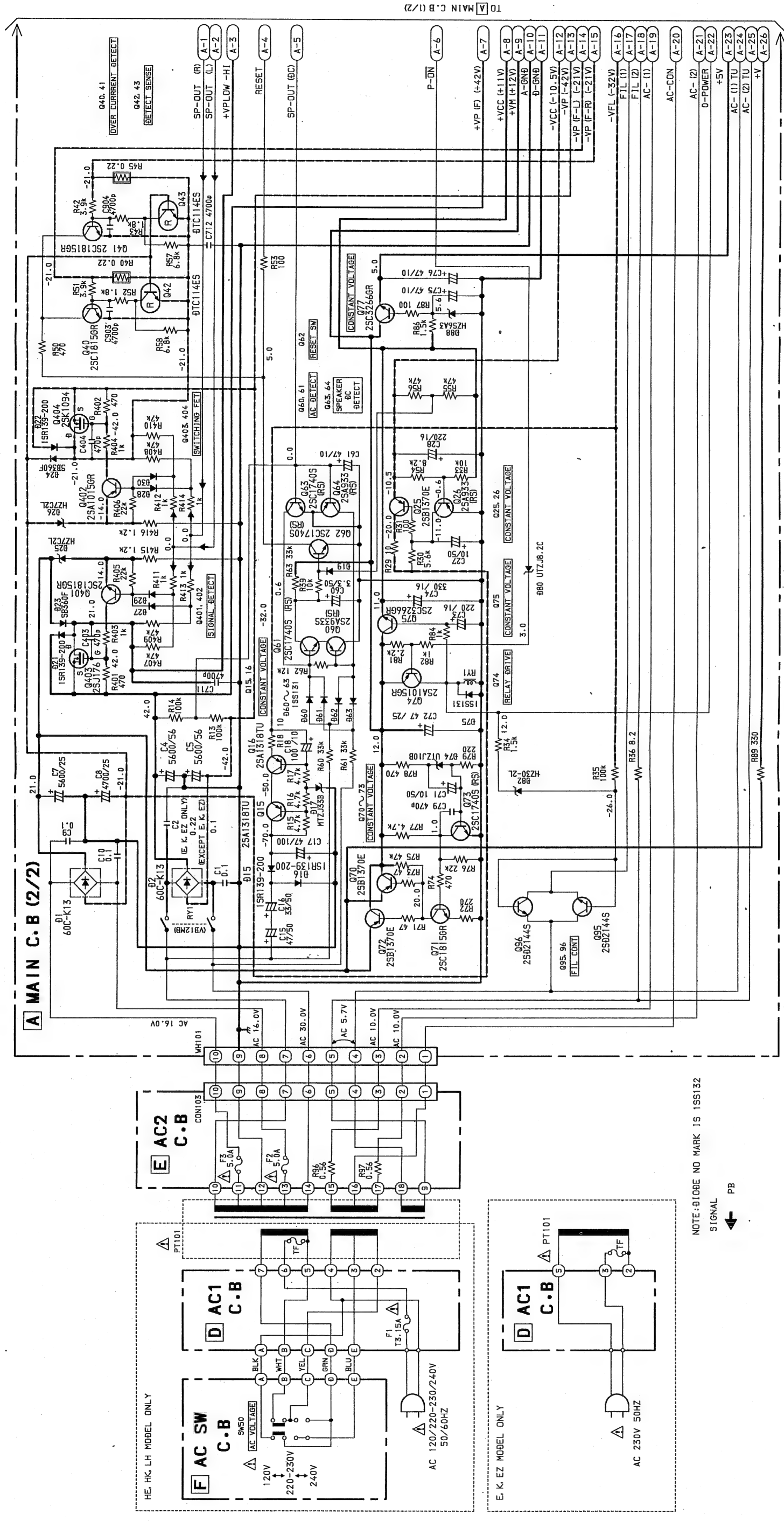
L: LOW LEVEL  
H: HIGH LEVEL  
X: IRRELEVANT

BLOCK DIAGRAM





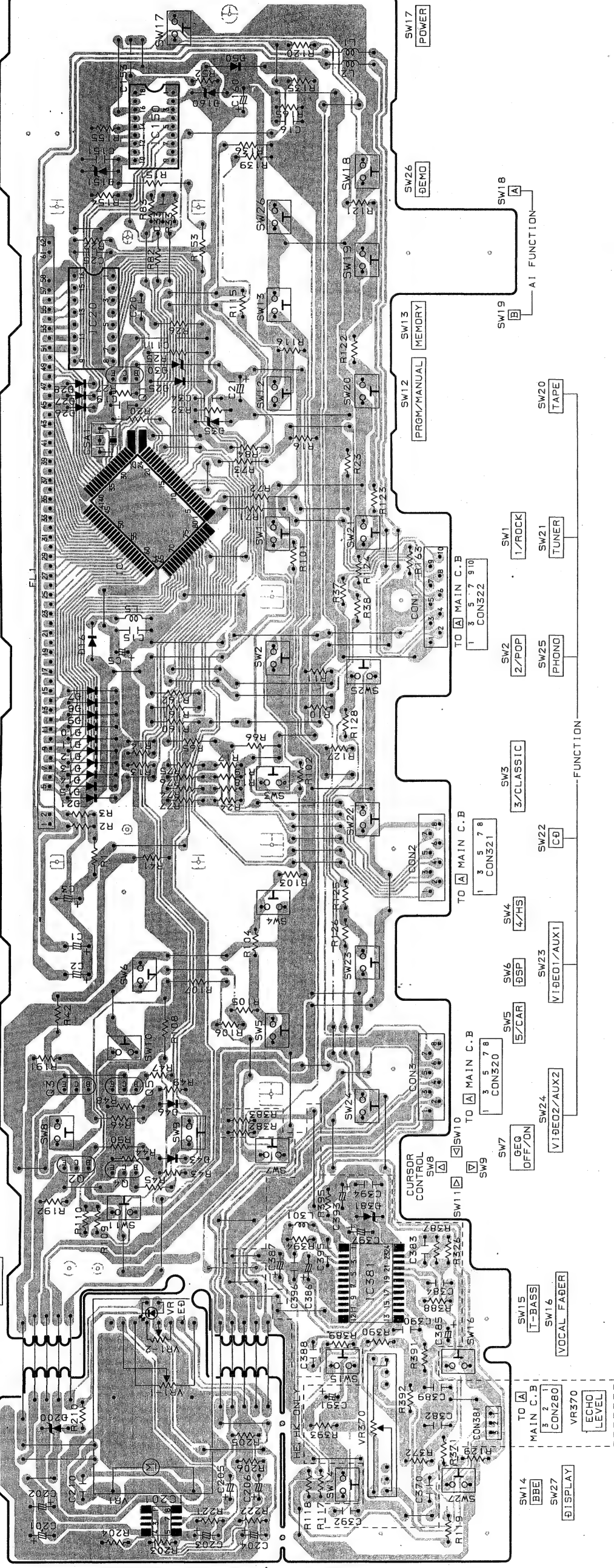




1 2 3 4 5 6 7 8 9 10 11 12 13 14

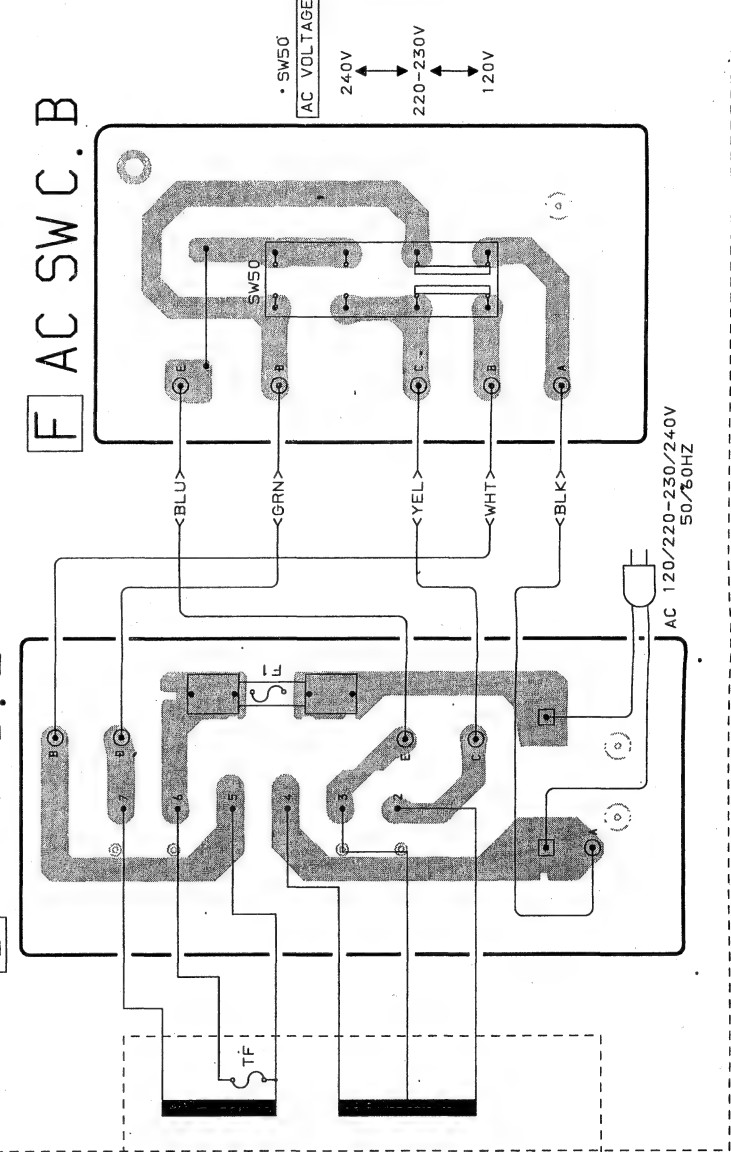
C MVR C.B

B FRONT C.B



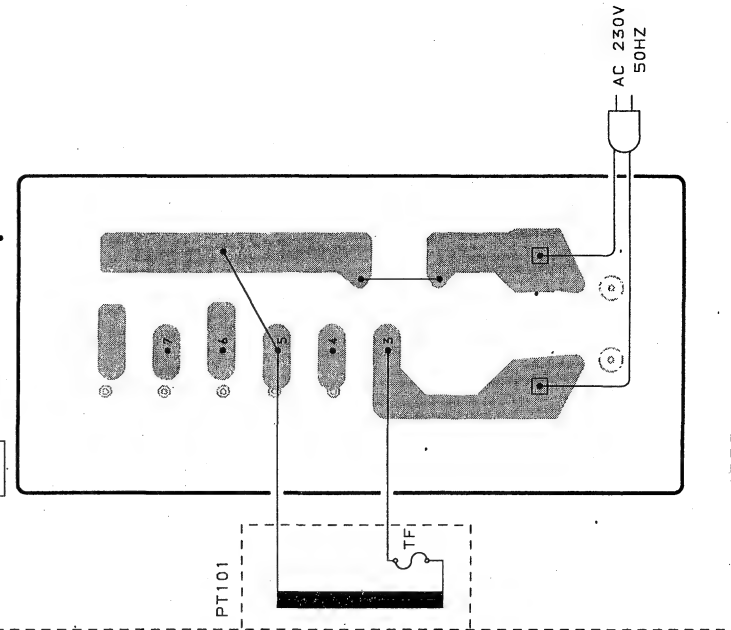
HE, HK, LH MODEL

D AC1 C.B

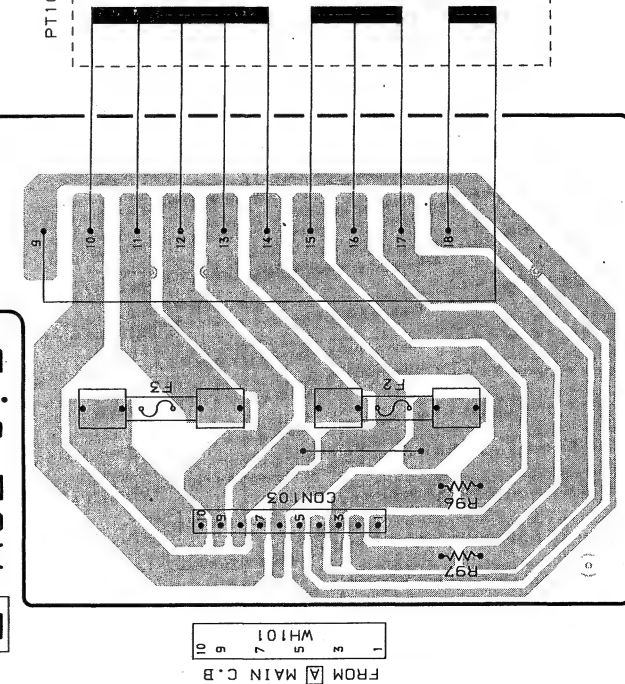


E, K, EZ MODEL

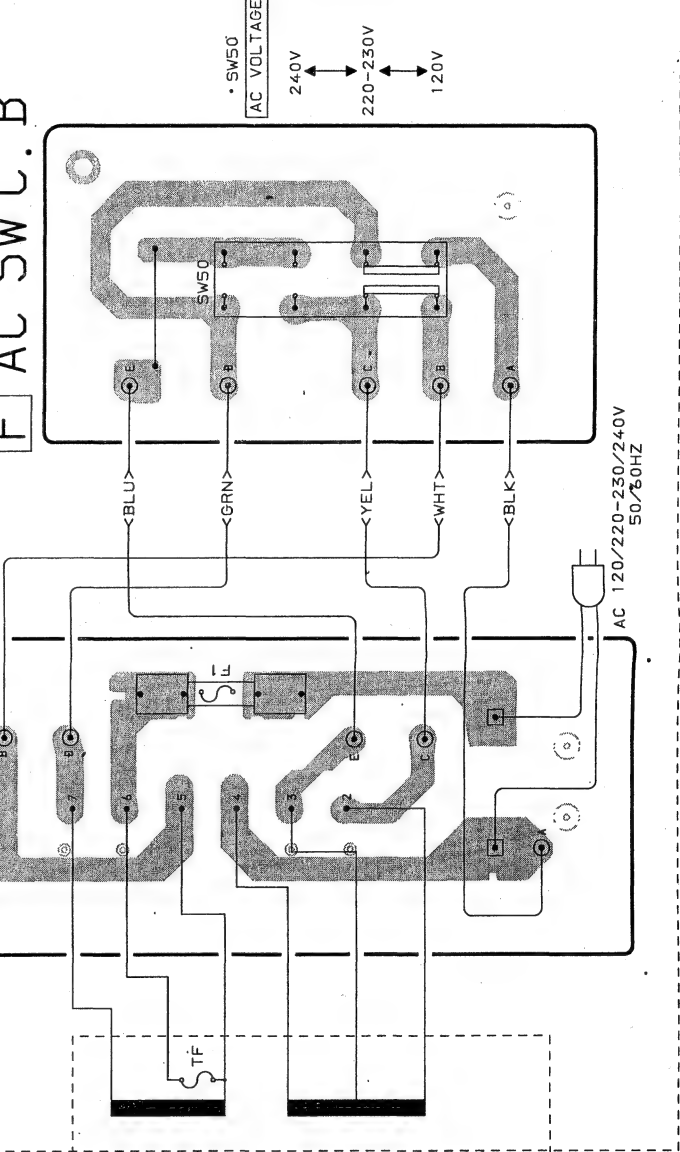
D AC1 C.B



E AC2 C.B

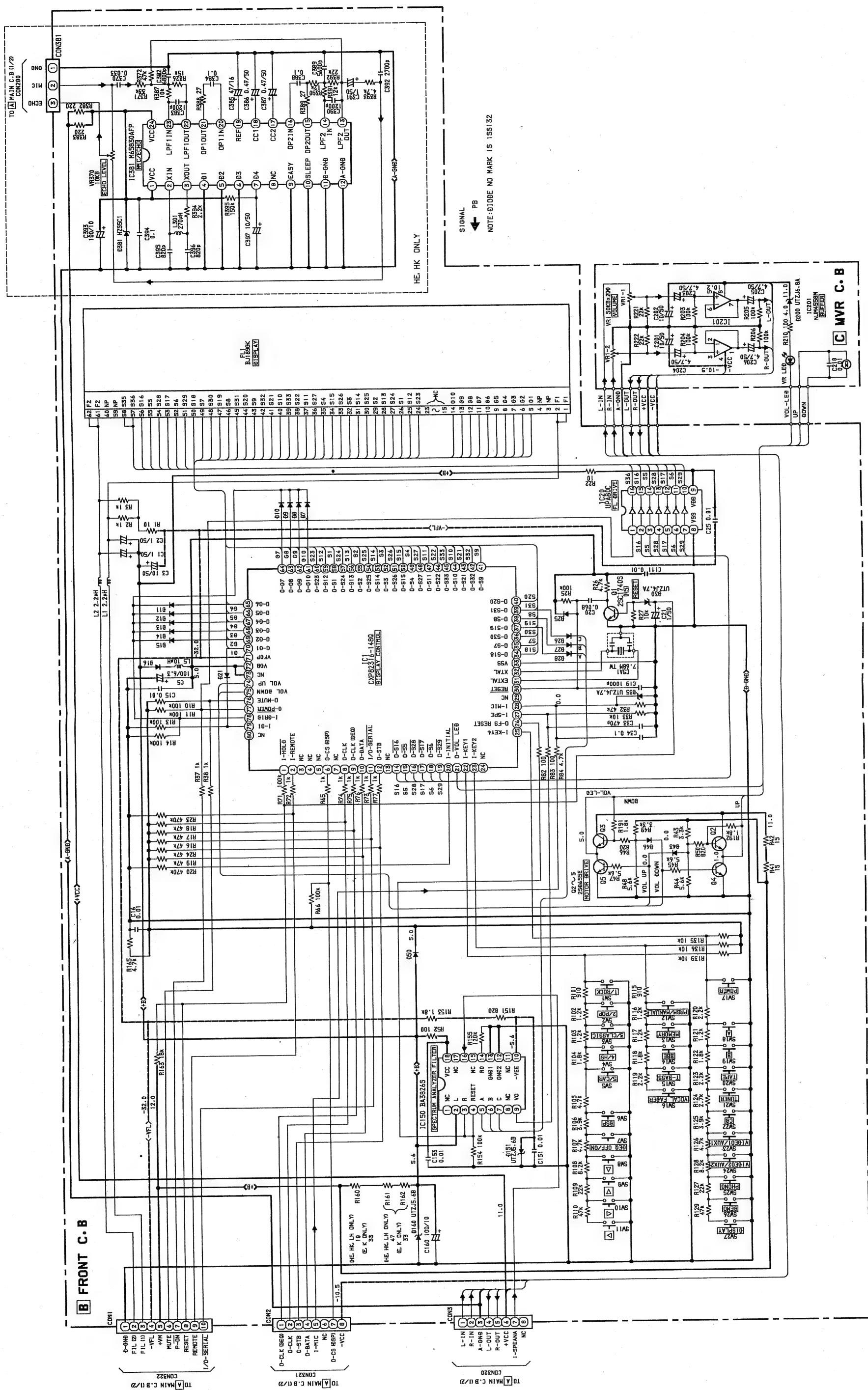


F AC SW C.B

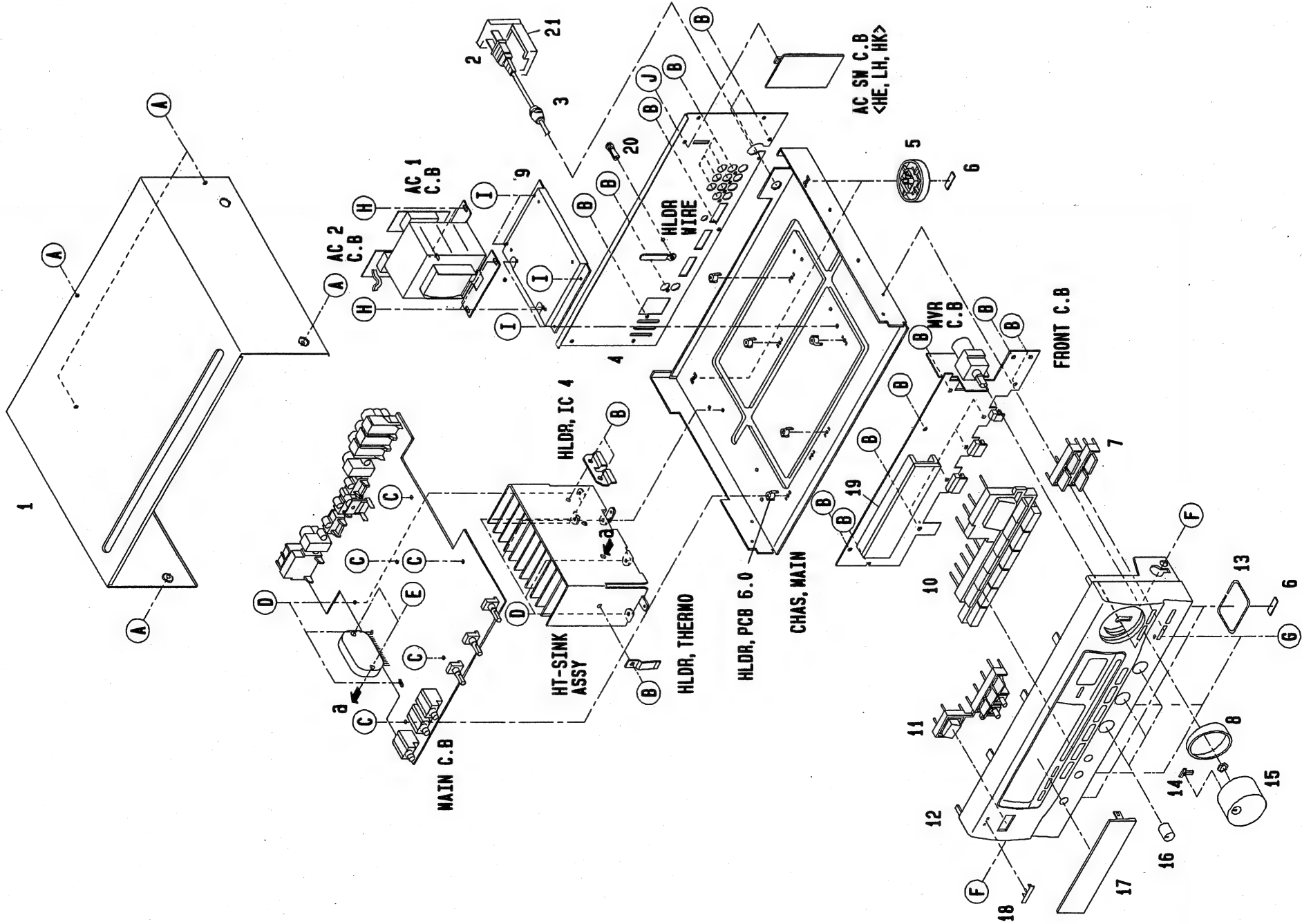




SCHEMATIC DIAGRAM - 3 (FRONT)



If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

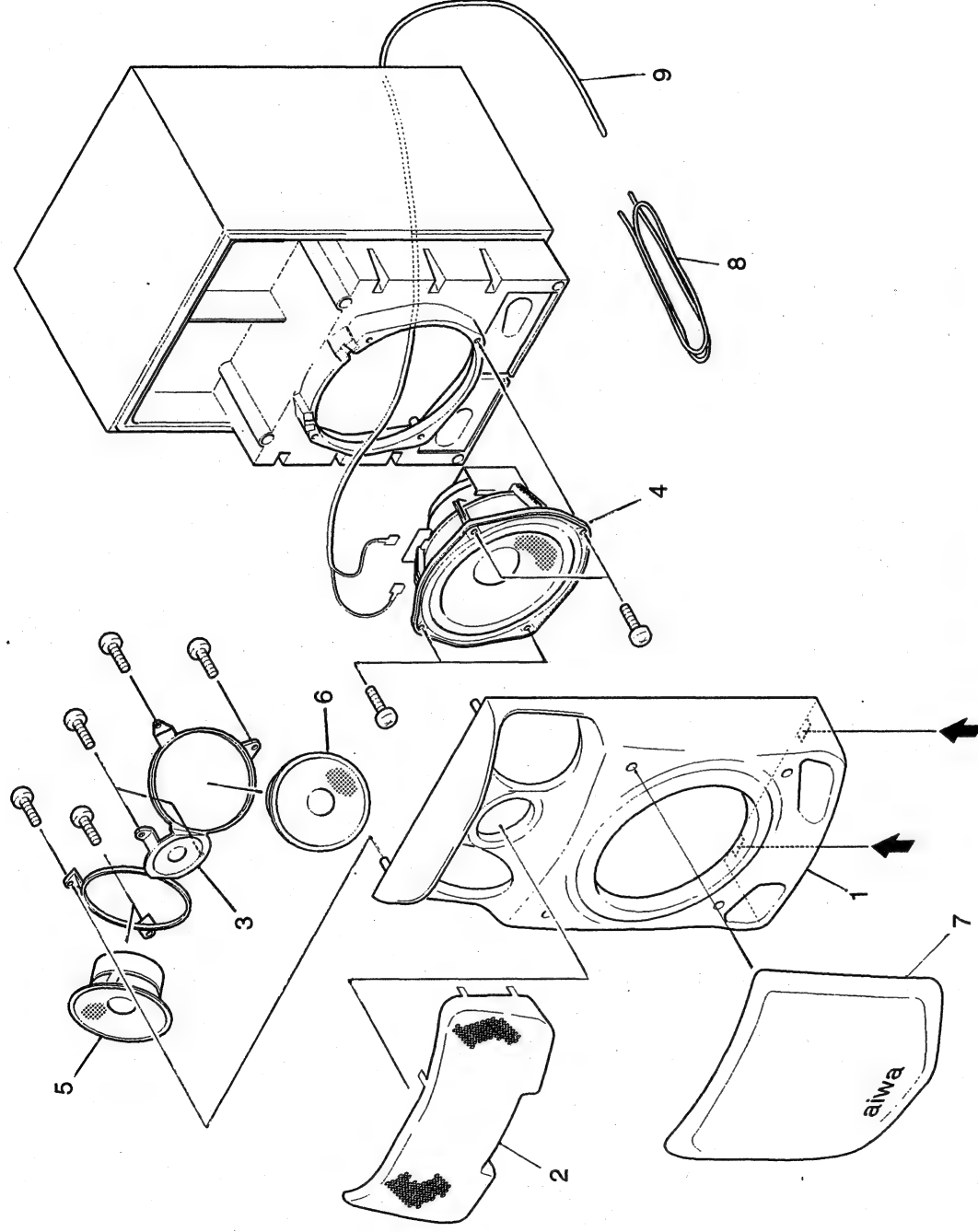


REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-VP2-011-019		CAB, STEEL	18	82-NE8-032-019		BADGE AIWA 27.5
2	87-050-100-019		AC CORD ASSY K3P<K>	19	82-VP2-203-019		GUIDE, FL
3	87-050-079-019		AC CORD ASSY, E<EXCEPT K>	20	87-084-077-019		NYLON RIVET DIA 3.5 - 4.5
4	87-085-185-010		BUSHING, AC CORD E	21	87-099-811-018		PLUG, ADPTR<HK>
4	85-VP3-012-019		PANEL, REAR EEBN<EE>	A	87-067-641-019		UTT2+3-8 W/O SLOT BLK
4	85-VP3-004-019		PANEL, REAR EZBN<EEZ, EEZ>	B	87-067-660-019		BVT2+3-8W/O SLOT BLK
4	85-VP3-002-019		PANEL, REAR HEJBN<HE>	C	87-067-758-019		BVT2+3-12 (W/O SLOT)
4	85-VP3-014-019		PANEL, REAR HKJBN<HK>	D	87-067-584-019		BVT2+3-6 W/O SLOT
4	85-VP3-009-019		PANEL, REAR KBN<K>	E	87-067-581-019		BVT2+3-15 W/O SLOT
4	85-VP3-007-019		PANEL, REAR LHBN<LH>	F	87-591-094-419		QIT + 3 - 6 GOLD
5	81-VX1-012-019		FOOT, REAR	G	87-067-716-019		BVTT+3-6 BLK
6	82-VW2-211-019		FELT, 20-7.5-2	H	87-067-975-019		S-SCREW IT+4-8
7	85-VP1-005-019		KEY, BBE	I	87-067-585-019		BVTT +4-6
8	85-VP1-007-019		RING, VOL	J	80-VP2-202-019		S SCREW VT2BLK<HE, LH, HK>
9	81-VP1-216-110		HLDR, PT				
10	85-VP3-005-019		KEY, FUN				
11	85-VP1-003-019		KEY, POWER				
12	85-VP3-003-019		CAB, FR E<EE, K, EEZ, EEZ>				
12	85-VP3-001-019		CAB, FR H<HE, HK>				
12	85-VP3-006-019		CAB, FR LH<LH>				
13	84-VW5-013-010		RING, FOOT				
14	82-NE6-016-019		IND, MAIN (VOL)				
15	85-VP1-008-019		KNOB, VOL				
16	83-NF6-020-019		KNOB, MIC				
17	85-VP1-006-019		WINDOW, AMP				

MODEL NO.

# SX-FZ3300

SPEAKER EXPLODED VIEW 1/1



矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、  
各々のスピーカー・ユニットのビスを取り、スピーカー・ユニット  
をはずしてください。

Insert a flat - bladed screwdriver into the position indicated by the arrows  
and remove the panel. Remove the screws of each speaker unit and then  
remove the speaker units.

## SPEAKER PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-MS3-004-010	PANEL FR		6	83-NS5-610-010	SPEAKER	
2	85-MS3-007-010	SPEAKER GRILL		7	85-MS3-008-010	GRILL FRAME ASSY	
3	85-MS3-005-010	ADAPTOR ASSY		8	85-MS3-610-010	SPEAKER CORD ASSY Y/B	
4	84-VS3-601-010	SPEAKER WOOFER		9	85-MS3-611-010	SPEAKER CORD ASSY	
5	83-NS5-608-010	SPEAKER MID H					

# REFERENCE NAME LIST

## ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

## MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サ-ビス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

アイワ株式会社  
AIWA CO., LTD.

〒110 東京都台東区池之端1-2-11

☎ 03 (3827) 3111 (代表)

Printed by: Schaltungsdienst Lange, Berlin (GERMANY)

9420025, 750038

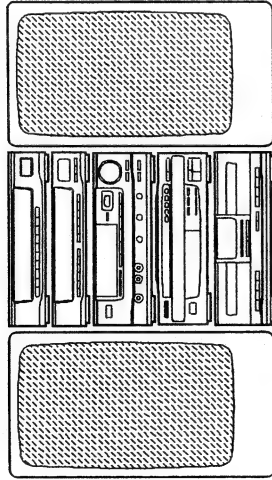
Tokyo Japan

# aiwa

AIWA-01510



## Z-D9300M



### STEREO SYSTEM

• BASIC TAPE MECHANISM: 2ZM-1 PIN R1N

• TYPE: K.EE

# SERVICE MANUAL

CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	GRAPHIC EQUALIZER	SPEAKER	CD PLAYER (OPTIONAL)
Z-D9300M	MX-Z9300M	FX-WZ9300	TX-Z9300	GE-Z9300	SX-Z9300	DX-Z9300M

● As to the service information of CD PLAYER, see the individual service manual of original (S/M Code No. 09-954-101-60I).

# TABLE OF CONTENTS

SPECIFICATIONS .....	3
TRANSISTOR ILLUSTRATION .....	4
ACCESSORIES / PACKAGE LIST .....	4
MODEL-NO. MX-Z9300M .....	
ELECTRICAL MAIN PARTS LIST .....	5~8
BLOCK DIAGRAM-1 (MAIN) .....	9~10
BLOCK DIAGRAM-2 (DSP) .....	11~12
WIRING-1 (MAIN) .....	13~14
SCHEMATIC DIAGRAM-1 (MAIN) .....	15~17
SCHEMATIC DIAGRAM-2 (DOLBY/DSP) .....	18~20
WIRING-2 (DOLBY/DSP) .....	21~22
WIRING-3 (VOLME) .....	23~24
SCHEMATIC DIAGRAM-3 (VOLME) .....	25~26
FL GRID ASSIGNMENT / ANODE CONNECTION .....	27
IC BLOCK DIAGRAM .....	27~29
IC DISCUSSION .....	29~33
MECHANICAL EXPLODED VIEW-1/1 .....	34
MECHANICAL PARTS LIST-1/1 .....	35
MODEL-NO. FX-WZ9300 .....	
CAUTION WHEN SERVICING .....	36
ELECTRICAL MAIN PARTS LIST .....	37~38
SCHEMATIC DIAGRAM .....	39~40
WIRING-1 (MAIN) .....	41~42
BLOCK DIAGRAM .....	43~44
WIRING-2 (RFONT/DECK) .....	45~46
FL GRID ASSIGNMENT / ANODE CONNECTION .....	47
IC BLOCK DIAGRAM .....	47
ELECTRICAL ADJUSTMENT .....	48~49
PRACTICAL SERVICE FIGURE .....	49
IC DISCUSSION .....	50~51
MECHANICAL EXPLODED VIEW-1/1 .....	52
MECHANICAL PARTS LIST-1/1 .....	53
TAPE MECHANISM EXPLODED VIEW-1/1 .....	54~55
TAPE MECHANISM PARTS LIST-1/1 .....	56
SPRING APPLICATION POSITION .....	57
MODEL-NO. TX-Z9300 .....	
CAUTION WHEN SERVICING .....	58
ELECTRICAL MAIN PARTS LIST .....	59~60
BLOCK DIAGRAM .....	61~62
WIRING .....	63~64
SCHEMATIC DIAGRAM .....	65~66
ELECTRICAL ADJUSTMENT .....	67~68
PRACTICAL SERVICE FIGURE .....	68
IC BLOCK DIAGRAM .....	69
IC DISCUSSION .....	70~71
MECHANICAL EXPLODED VIEW-1/1 .....	72
MECHANICAL PARTS LIST-1/1 .....	73
MODEL-NO. GE-Z9300 .....	
CAUTION WHEN SERVICING .....	74
ELECTRICAL MAIN PARTS LIST .....	74
FL GRID ASSIGNMENT / ANODE CONNECTION .....	75
BLOCK DIAGRAM .....	76
SCHEMATIC DIAGRAM .....	77~78
WIRING .....	79~80
IC BLOCK DIAGRAM .....	81
IC DISCUSSION .....	82
MECHANICAL EXPLODED VIEW-1/1 .....	83
MECHANICAL PARTS LIST-1/1 .....	84
MODEL-NO. SX-Z9300 .....	
SPEAKER PARTS LIST .....	85
DISASSEMBLY INSTRUCTIONS .....	85
REFERENCE NAME LIST .....	86



## SPECIFICATIONS

### AMPLIFIER MX-Z9300M

<b>Power requirements</b>	230 V, 50 Hz
<b>Power consumption</b>	325 W (System total 360 W)
<b>Power output</b>	Front (without connecting to the SURROUND SPEAKERS) Rated: 65 W + 65 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN45500) Reference: 80 W + 80 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN45324) DIN MUSIC POWER: 105 W + 105 W
	<b>Rear (Surround)</b> Rated: 10 W + 10 W (16 ohms, T.H.D. 1 %, 1 kHz) Reference: 12.5 W + 12.5 W (16 ohms, T.H.D. 10 %, 1 kHz) DIN MUSIC POWER: 16 W + 16 W
	<b>Center</b> Rated: 20 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 25 W (8 ohms, T.H.D. 10 %, 1 kHz) DIN MUSIC POWER: 32 W

### Total harmonic distortion

0.08 % (25 W, 1 kHz, 6 ohms)

### Outputs

**SPEAKERS:** accepts speakers of 6 ohms or more  
**CENTER SPEAKER:** accepts speakers of 8 ohms or more  
**SURROUND SPEAKERS :** accepts speakers of 16 ohms or more  
**PHONES** (stereo standard jack): accepts headphones of 32 ohms or more  
**SUPER WOOFER:** 1.5 V  
**MONITOR OUT:** 1 Vp-p (75 ohms)  
**REC OUT:** 300 mV (1 kohm)  
**VIDEO 1/AUX 1:** 300 mV (39 kohms)  
**VIDEO 2/AUX 2:** 500 mV (39 kohms)  
**PHONO IN:** 500 mV or more (36 kohms)  
**MIC 1, MIC 2:** 1.2 mV (10 kohms)  
**Dimension (W × H × D)** 360 × 128.5 × 329 mm (14 1/4 × 5 1/8 × 13 in.)  
**Weight** 8.4 kg (18 lbs 8 oz)

### STEREO CASSETTE DECK FX-WZ9300

<b>Track format</b>	4 tracks, 2 channels stereo
<b>Frequency response</b>	Metal tape: 20 Hz – 17000Hz CrO <sub>2</sub> tape: 20 Hz – 16000Hz Normal tape: 20 Hz – 15000Hz
<b>Signal-to-noise ratio</b>	70 dB (Dolby C NR ON, metal tape peak level above 5 kHz)
<b>Wow and flutter</b>	0.12 % (WRMS) ± 0.19 % (WPEAK)
<b>Recording system</b>	AC bias
<b>Heads</b>	DECK 1: Playback head × 1 DECK 2: Recording/playback/erase head × 1
<b>Dimension (W × H × D)</b>	360 × 128.5 × 313 mm (14 1/4 × 5 1/8 × 12 3/8 in.)
<b>Weight</b>	3.2 kg (7 lbs 1oz)

### TUNER TX-Z9300


<b>&lt;FM tuner section&gt;</b>	87.5 MHz to 108 MHz
<b>Tuning range</b>	18.2 dBf (2.2 μV, 75 ohms)
<b>Usable sensitivity(IHF)</b>	75 ohms (unbalanced)
<b>Antenna terminals</b>	
<b>&lt;MW tuner section&gt;</b>	522 kHz to 1611 kHz
<b>Tuning range</b>	400 μV/m
<b>Usable sensitivity</b>	Loop antenna
<b>Antenna</b>	
<b>&lt;LW tuner section&gt;</b>	144 kHz to 290 kHz
<b>Tuning range</b>	1000 μV/m
<b>Usable sensitivity</b>	Loop antenna
<b>Antenna</b>	
<b>&lt;General&gt;</b>	
<b>Dimension &lt;W × H × D&gt;</b>	360 × 88.5 × 320.5 mm (14 1/4 × 3 1/2 × 12 5/8 in.)
<b>Weight</b>	2.1 kg (4 lbs 10 oz)

### GRAPHIC EQUALIZER GE-Z9300

<b>Input</b>	210 mV (47 kohms)
<b>Output</b>	210 mV (47 kohms)
<b>Dimensions (W × H × D)</b>	360 × 88.5 × 310.5 mm (14 1/4 × 3 1/2 × 12 1/4 in.)
<b>Weight</b>	2 kg (4 lbs 7 oz)

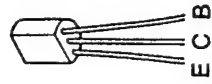
### SPEAKER SYSTEM SX-Z9300

<b>Cabinet type</b>	3 way, bass reflex (Magnetism sealed type)
<b>Speaker</b>	Woofer: 220 mm (8 3/4 in.) cone type Tweeter: 60 mm (2 3/8 in.) cone type Super tweeter: 30 mm (1 3/16 in.) ceramic type
<b>Impedance</b>	6 ohms
<b>Output sound pressure level</b>	90 dB/W/m
<b>Dimensions (W × H × D)</b>	290 × 545 × 230 mm (11 1/2 × 21 1/2 × 9 1/8 in.)
<b>Weight</b>	7.2 kg (15 lbs 14 oz)

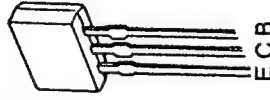
- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
- Under license from BBE Sound, Inc.



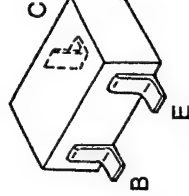
# TRANSISTOR ILLUSTRATION



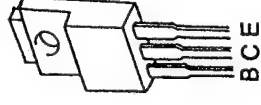
2SA952  
2SA1015  
2SA1048  
2SA1296  
2SA1318  
2SC1815  
2SC2001  
2SC2458  
2SC3328  
2SC3331  
2SD655  
2SD1302



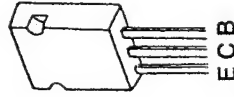
2SA933  
2SC1740  
2SD2144  
DTA114ES  
DTA114YS  
DTC114ES  
DTC114TS  
DTC114YS  
DTA144WS



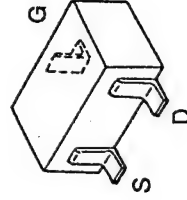
2SA1362  
2SC1623  
2SC2712  
2SC2714  
2SC3326  
DTA114EK  
DTA114YK  
DTA123JK  
DTA144EK  
DTC143TK  
DTC144EK  
DTC144WK



2SB1370



2SB1332R



2SK209  
2SK211  
2SK302  
2SK368

## ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は“REFERENME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	お名前 NO.	DESCRIPTION
1	85-VP1-902-019	IB, EGI (S) <EE>	
2	85-VP1-901-019	IB, ESF (S)	
3	85-VP1-620-019	RC, RC-T510	
4	87-006-225-019	AM LOOP ANT NC2	
5	87-043-106-019	FM, WIRE ANT (Z)	

MODEL NO.  
**MX-Z9300M**

**ELECTRICAL MAIN PARTS LIST (MX-Z9300M)**

DESCRIPTIONで判断できない物は“REFERENCE LIST”を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	かんり NO.	DESCRIPTION	REF. NO	PART NO.	かんり NO.	DESCRIPTION
IC	84-VP1-637-110		IC, CXP82532-114Q	MAIN C.B	87-017-024-089		C-DIODE, DA204K
	87-027-938-019		IC, TC4053BP				
	87-027-958-019		IC, TC4051BP				
	87-027-666-019		IC, TC4052BP		C1	87-018-208-089	CAP, TC-U 0.047-50 F
	87-002-727-019		IC, NJM4558L		C2	87-018-208-089	CAP, TC-U 0.047-50 F
					C3	87-018-208-089	CAP, TC-U 0.047-50 F<EE>
	87-002-218-010		IC, XRC5451AP		C4	87-018-208-089	CAP, TC-U 0.047-50 F<EE>
	87-017-374-019		IC, TC4094BP		C5	87-016-055-099	CAP, E 3300-42 HI-R
	87-017-885-010		IC, NJM2177AF				
	87-002-872-040		IC, MC14053 BF		C6	87-016-055-099	CAP, E 3300-42 HI-R
	87-002-255-010		IC, TC9213P		C7	87-016-160-099	CAP, E 5600-56 BSN
					C8	87-016-160-099	CAP, E 5600-56 BSN
	87-017-016-010		IC, LM3875		C15	87-010-260-089	CAP, E 47-25 SME
	87-001-396-019		IC, STR4182-MK2		C16	87-010-384-089	CAP, E 100-25 SME
	87-017-019-010		IC, CXP81312-333Q				
	87-017-022-089		IC, NJM2068M-D(TL)		C17	87-010-764-089	CAP, E 47-63V
	87-002-214-010		IC, CS5339-KP		C18	87-010-263-089	CAP, E 100-10
					C27	87-010-406-089	CAP, E 22-50 SME
	87-017-018-019		IC, CXD2701Q		C28	87-010-101-089	CAP, E 220-16 SME
	87-070-131-010		IC, HM514256AP-10		C40	87-010-545-089	CAP, E 0.22-50 SME
	87-002-279-010		IC, SM5840ES				
	87-017-446-080		IC, PCM69AU		C60	87-010-403-089	CAP, E 3.3-50 SME
	87-002-412-080		IC, SN74HCOONS		C61	87-010-374-089	CAP, E 47-10
					C70	87-010-453-099	CAP, E 4700-25V SME
	87-002-409-080		IC, SN74HC74NS		C71	87-010-405-089	CAP, E 10-50 SME
	87-020-881-089		IC, NJM78105A		C72	87-010-260-089	CAP, E 47-25 SME
	87-020-882-089		IC, NJM79105				
	87-001-536-019		IC, NJM78M05FA		C73	87-010-101-089	CAP, E 220-16 SME
TRANSISTOR					C74	87-010-381-089	CAP, E 330-16 SME
	87-026-462-089		TR, 2SC1740S (RS)		C75	87-016-293-019	CAP, E 220-50 BP
	89-320-011-089		TR, 2SC2001K		C77	87-018-208-089	CAP, TC-U 0.047-50 F
	87-026-464-089		TR, DTC114TS		C78	87-018-208-089	CAP, TC-U 0.047-50 F
	87-026-245-089		TR, DTC114ES				
	89-113-187-889		TR, 2SA1318TU		C79	87-018-127-089	CAP, TC-U 470P-50 B
					C101	87-010-404-089	CAP, E 4.7-50 SME
	89-213-702-019		TR, 2SB1370E		C102	87-010-404-089	CAP, E 4.7-50 SME
	87-026-463-089		TR, 2SA933S (RS)		C103	87-010-406-089	CAP, E 22-50 SME
	89-318-155-089		TR, 2SC1815GR		C104	87-010-374-089	CAP, E 47-10
	89-213-321-089		TR, 2SB1332R (T105)		C105	87-010-263-089	CAP, E 100-10
	89-320-011-289		TR, 2SC2001KL		C106	87-010-221-089	CAP, E 470-10
					C107	87-018-119-089	CAP, TC-U 100P-50 B<K>
	87-026-215-089		TR, DTC114YS		C108	87-018-119-089	CAP, TC-U 100P-50 B<K>
	87-026-500-089		TR, 2SD2144S, UV (TP)		C141	87-010-406-089	CAP, E 22-50 SME
DIODE	89-333-317-889		TR, 2SC3331 TU				
	89-406-555-089		TR, 2SD655E		C191	87-010-405-089	CAP, E 10-50 SME
	87-026-232-089		TR, DTA144WS		C192	87-010-405-089	CAP, E 10-50 SME
					C193	87-010-405-089	CAP, E 10-50 SME
	87-026-211-089		C-TR, DTA144EX T147		C194	87-010-405-089	CAP, E 10-50 SME
	87-026-238-089		C-TR, DTC144WK		C198	87-010-405-089	CAP, E 10-50 SME
	89-109-521-089		TR, 2SA952K		C199	87-010-405-089	CAP, E 10-50 SME
					C200	87-010-405-089	CAP, E 10-50 SME
	87-002-225-019		DIODE, DBF 40C-K10		C201	87-018-134-089	CAP, TC-U 0.01-16 Y
	87-002-597-069		DIODE, DBF 60C-K13		C202	87-018-134-089	CAP, TC-U 0.01-16 Y
	87-001-911-089		ZENER, UTZJ 5.1B		C240	87-018-119-089	CAP, TC-U 100P-50 B<K>
	87-020-691-089		DIODE, 1SS132 T-72				
	87-001-574-089		DIODE, 1SR139-200 T31		C241	87-018-119-089	CAP, TC-U 100P-50 B<K>
					C243	87-010-404-089	CAP, E 4.7-50 SME
	87-002-743-080		ZENER, MTZJ33B		C244	87-010-404-089	CAP, E 4.7-50 SME
	87-001-913-089		ZENER, UTZJ5.6B		C350	87-010-401-089	CAP, E 1-50 SME

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
C261	87-010-400-089		CAP,E 0.47-50 SME	C764	87-010-260-089		CAP,E 47-25 SME
C262	87-010-404-089		CAP,E 4.7-50 SME	C771	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C263	87-010-404-089		CAP,E 4.7-50 SME	C772	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C264	87-010-401-089		CAP,E 1-50 SME	C773	87-018-214-089		CAP,TC-U 0.1-50 F<K>
C265	87-010-405-089		CAP,E 10-50 SME	C775	87-018-123-089		CAP,TC-U 220P-50 B<K>
C266	87-010-404-089		CAP,E 4.7-50 SME	C776	87-018-123-089		CAP,TC-U 220P-50 B<K>
C267	87-010-404-089		CAP,E 4.7-50 SME	C780	87-018-133-089		CAP,TC-U 2200P-16 X<K>
C268	87-010-405-089		CAP,E 10-50 SME	C781	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C269	87-018-121-089		CAP,TC-U 150P-50 B	C800	87-018-134-089		CAP,TC-U 0.01-16 Y
C270	87-018-121-089		CAP,TC-U 150P-50 B	C801	87-018-209-089		CAP,TC-U 0.1-50 F<K>
C273	87-018-134-089		CAP,TC-U 0.01-16 Y	C802	87-018-209-089		CAP,TC-U 0.1-50 F<K>
C274	87-018-134-089		CAP,TC-U 0.01-16 Y	C803	87-018-209-089		CAP,TC-U 0.1-50 F<K>
C275	87-018-198-089		CAP,TC-U 2700P-16 X	CON328	84-VP1-632-019		CONN ASSY,6P C AMP
C276	87-018-198-089		CAP,TC-U 2700P-16 X	CON329	84-VP1-631-119		CONN ASSY,7PC OUT
C277	87-018-122-089		CAP,TC-U 180P-50 B	EMI1	87-008-372-089		FLTR,EMI BL 01RNI
C278	87-018-122-089		CAP,TC-U 180P-50 B	EMI2	87-008-372-089		FLTR,EMI BL 01RNI
C281	87-010-544-089		CAP,E 0.1-50	EMI3	87-008-372-089		FLTR,EMI BL 01RNI<K>
C282	87-010-544-089		CAP,E 0.1-50	EMI4	87-008-372-089		FLTR,EMI BL 01RNI<K>
C283	87-010-545-089		CAP,E 0.22-50 SME	EMI5	87-008-372-089		FLTR,EMI BL 01RNI<K>
C284	87-010-545-089		CAP,E 0.22-50 SME	FC326	85-VP1-619-019		CABLE,FFC 1.25-13P
C285	87-010-403-089		CAP,E 3.3-50 SME	J280	87-099-084-019		JACK,6.3 W/S
C286	87-010-405-089		CAP,E 10-50 SME	J281	87-099-064-019		JACK,6.3 W/S
C287	87-010-405-089		CAP,E 10-50 SME	J283	87-099-064-019		JACK,6.3 W/S
C289	87-010-401-089		CAP,E 1-50 SME	J750	81-VP1-634-019		JACK,PIN 3P
C290	87-010-403-089		CAP,E 3.3-50 SME	J751	81-VP1-634-019		JACK,PIN 3P
C291	87-018-195-089		CAP,TC-U 1200P-16 X	J752	81-VP1-634-019		JACK,PIN 3P
C292	87-018-195-089		CAP,TC-U 1200P-16 X	J753	87-009-393-019		JACK,PIN 2P EARTH
C293	87-018-126-089		CAP,TC-U 390P-50 B	J754	87-009-063-019		CONN,11P FG
C294	87-018-126-089		CAP,TC-U 390P-50 B	J756	87-009-063-419		CONN,11P FG (BLU)
C360	87-010-404-089		CAP,E 4.7-50 SME	J759	87-009-393-019		JACK,PIN 2P EARTH
C365	87-018-115-089		CAP,TC-U 47P-50 SL	J760	87-033-225-019		TERMINAL,SP-4P N
C670	87-010-405-089		CAP,E 10-50 SME	L750	87-005-366-019		COIL,1UH
C671	87-010-400-089		CAP,E 0.47-50 SME	L751	87-005-366-019		COIL,1UH<K>
C681	87-016-072-089		CAP,E 0.47-50 FX	L752	87-005-366-019		COIL,1UH<K>
C682	87-016-072-089		CAP,E 0.47-50 FX	L800	87-003-098-089		COIL,2.2UH<K>
C683	87-010-401-089		CAP,E 1-50 SME	L801	87-003-098-089		COIL,2.2UH<K>
C684	87-010-401-089		CAP,E 1-50 SME	R29	87-025-476-089		RES,NF 33-1/4WJ
C685	87-010-400-089		CAP,E 0.47-50 SME	R40	87-022-050-089		RES,METAL 1W-0.22J
C686	87-010-400-089		CAP,E 0.47-50 SME	R45	87-022-050-089		RES,METAL 1W-0.22J
C687	87-010-401-089		CAP,E 1-50 SME	R49	87-022-050-089		RES,METAL 1W-0.22J
C688	87-010-401-089		CAP,E 1-50 SME	R777	87-022-050-089		RES,METAL 1W-0.22J
C689	87-016-096-089		CAP,E 47-16 FX	R778	87-022-050-089		RES,METAL 1W-0.22J
C690	87-016-096-089		CAP,E 47-16 FX	R779	87-022-050-089		RES,METAL 1W-0.22J
C691	87-010-405-089		CAP,E 10-50 SME	R780	87-022-050-089		RES,METAL 1W-0.22J
C692	87-010-405-089		CAP,E 10-50 SME	R787	87-025-417-080		RES,NF 1-1/4W
C695	87-010-400-089		CAP,E 0.47-50 SME	RY1	87-045-285-010		RELAY,VB12MB
C696	87-010-401-089		CAP,E 1-50 SME	RY2	87-045-285-010		RELAY,VB12MB
C697	87-010-403-089		CAP,E 3.3-50 SME	RY3	87-045-344-010		RELAY,G5B-1 12V
C698	87-010-403-089		CAP,E 3.3-50 SME	VR141	84-VP2-632-019		VR,50KX2 RK14K1210
C699	87-010-544-089		CAP,E 0.1-50	VR281	81-VP1-622-019		VR,10KA RK11K112
C701	87-010-405-089		CAP,E 10-50 SME	VR282	81-VP1-622-019		VR,10KA RK11K112
C702	87-010-405-089		CAP,E 10-50 SME	VR372	81-VP1-627-019		VOL,100KW RK11K112
C703	87-018-128-089		CAP,TC-U 560P-50 B	W1	82-VP2-634-119		F-CABLE 5P-2.5
C704	87-018-128-089		CAP,TC-U 560P-50 B	W2	82-VP2-634-119		F-CABLE 5P-2.5
C705	87-010-404-089		CAP,E 4.7-50 SME	FRONT C.B			
C706	87-010-404-089		CAP,E 4.7-50 SME	C1	87-010-401-089		CAP,E 1-50 SME
C750	87-010-405-089		CAP,E 10-50 SME	C2	87-010-401-089		CAP,E 1-50 SME
C751	87-010-374-089		CAP,E 47-10<EE>	C3	87-010-405-089		CAP,E 10-50 SME
C752	87-018-131-089		CAP,TC-U 1000P-50 B	C4	87-016-088-049		CAP,E 220-6.3 SR
C753	87-018-196-089		CAP,TC-U 1500P-16 X<K>	C5	87-010-263-089		CAP,E 100-10
C756	87-018-214-089		CAP,TC-U 0.1-50 F<K>	C7	87-010-074-089		CAP,E 4.7-35 5L
C757	87-018-208-089		CAP,TC-U 0.047-50 F<EE>	C15	87-018-209-089		CAP,TC-U 0.1-50 F
C757	87-018-214-089		CAP,TC-U 0.1-50 F<K>	C19	87-018-131-089		CAP,TC-U 1000P-50 B
C757	87-018-208-089		CAP,TC-U 0.047-50 F<EE>	C20	87-010-401-089		CAP,E 1-50 SME
C758	87-010-408-089		CAP,E 47-50 SME	C21	87-010-401-089		CAP,E 1-50 SME
C759	87-010-374-089		CAP,E 47-10	C22	87-018-209-089		CAP,TC-U 0.1-50 F
C760	87-010-374-089		CAP,E 47-10	C30	87-018-209-089		CAP,TC-U 0.1-50 F<K>
C761	87-018-111-089		CAP,TC-U 27P-50 SL	C31	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C762	87-018-111-089		CAP,TC-U 27P-50 SL				
C763	87-010-260-089		CAP,E 47-25 SME				

REF. NO	PART NO.	かんり NO.	DESCRIPTION	REF. NO	PART NO.	かんり NO.	DESCRIPTION
C32	87-018-134-089		CAP,TC-U 0.01-16 Y<K>	C555	87-010-074-049		CAP,E 4.7-35 5L
C33	87-018-131-089		CAP,TC-U 1000P-50 B	C556	87-018-195-089		CAP,TC-U 1200P-16 X
FL1	84-VP1-630-019		FL,11BT135GK	C557	87-010-197-089		C-CAP,S 0.01-25 B
L1	87-003-098-089		COIL,2.2UH	C558	87-010-404-089		CAP,E 4.7-50 SME
L2	87-003-098-089		COIL,2.2UH	C559	87-010-074-089		CAP,E 4.7-35 5L
L3	87-003-102-089		COIL,10UH	C560	87-018-111-089		CAP,TC-U 27P-50 SL
L4	87-005-153-089		COIL,47UH	C561	87-018-203-089		CAP,TC-U 8200P-16 Y
S1	87-036-215-089		SW,TRACT EVQ21404M	C562	87-010-260-089		CAP,E 47-25 SME
S2	87-036-215-089		SW,TRACT EVQ21404M	C563	87-010-260-089		CAP,E 47-25 SME
S3	87-036-215-089		SW,TRACT EVQ21404M	C564	87-018-209-089		CAP,TC-U 0.1-50 F
S4	87-036-215-089		SW,TRACT EVQ21404M	C565	87-018-209-089		CAP,TC-U 0.1-50 F
S5	87-036-215-089		SW,TRACT EVQ21404M	C566	87-010-404-089		CAP,E 4.7-50 SME
S6	87-036-215-089		SW,TRACT EVQ21404M	C568	87-010-404-089		CAP,E 4.7-50 SME
S7	87-036-215-089		SW,TRACT EVQ21404M				
S8	87-036-215-089		SW,TRACT EVQ21404M	DSP C.B			
S9	87-036-215-089		SW,TRACT EVQ21404M	C900	87-010-194-089		C-CAP,S 0.047-25 F
S10	87-036-215-089		SW,TRACT EVQ21404M	C902	87-010-194-089		C-CAP,S 0.047-25 F
S11	87-036-215-089		SW,TRACT EVQ21404M	C903	87-012-349-089		C-CAP,S 1000P-50 CH
S12	87-036-215-089		SW,TRACT EVQ21404M	C904	87-012-349-089		C-CAP,S 1000P-50 CH
S13	87-036-215-089		SW,TRACT EVQ21404M	C905	87-010-234-089		CAP,E 47-16 5L
S14	87-036-215-089		SW,TRACT EVQ21404M	C906	87-010-234-089		CAP,E 47-16 5L
S15	87-036-215-089		SW,TRACT EVQ21404M	C907	87-012-349-089		C-CAP,S 1000P-50 CH
S16	87-036-215-089		SW,TRACT EVQ21404M	C908	87-012-349-089		C-CAP,S 1000P-50 CH
S17	87-036-215-089		SW,TRACT EVQ21404M	C911	87-016-264-089		C-CAP,TN4.7-6.3F95Q
S18	87-036-215-089		SW,TRACT EVQ21404M	C912	87-010-805-089		C-CAP,S 1-16F
S20	87-036-215-089		SW,TRACT EVQ21404M	C913	87-010-263-089		CAP,E 100-10
S21	87-036-215-089		SW,TRACT EVQ21404M	C915	87-016-264-089		C-CAP,TN4.7-6.3F95Q
S22	87-036-215-089		SW,TRACT EVQ21404M	C916	87-010-196-089		C-CAP,S 0.1-25 F
S23	87-036-215-089		SW,TRACT EVQ21404M	C917	87-010-196-089		C-CAP,S 0.1-25 F
S24	87-036-215-089		SW,TRACT EVQ21404M	C918	87-010-293-089		C-CAP,47P-50 CH
S25	87-036-215-089		SW,TRACT EVQ21404M	C919	87-010-194-089		C-CAP,S 0.047-25 F
S26	87-036-215-089		SW,TRACT EVQ21404M	C920	87-010-197-089		C-CAP,S 0.01-25 B
S27	87-036-215-089		SW,TRACT EVQ21404M	C921	87-010-075-089		CAP,E 10-16 5L
S28	87-036-215-089		SW,TRACT EVQ21404M	C922	87-010-075-089		CAP,E 10-16 5L
S29	87-036-215-089		SW,TRACT EVQ21404M	C923	87-010-318-089		C-CAP,S 47P-50 CH
S30	87-036-215-089		SW,TRACT EVQ21404M	C924	87-010-318-089		C-CAP,S 47P-50 CH
X1	87-008-506-089		VIB,CER 10.0MHZ CST	C925	87-010-196-089		C-CAP,S 0.1-25 F
DOLBY C.B							
C50	87-010-404-089		CAP,E 4.7-50 SME	C926	87-010-401-089		CAP,E 1-50 SME
C51	87-010-404-089		CAP,E 4.7-50 SME	C927	87-010-405-089		CAP,E 10-50 SME
C503	87-018-129-089		CAP,TC-U 680P-50 B	C928	87-010-197-089		C-CAP,S 0.01-25 B
C504	87-018-129-089		CAP,TC-U 680P-50 B	C929	87-010-196-089		C-CAP,S 0.1-25 F
C509	87-010-405-089		CAP,E 10-50 SME	C930	87-010-196-089		C-CAP,S 0.1-25 F
C510	87-010-405-089		CAP,E 10-50 SME	C931	87-010-405-089		CAP,E 10-50 SME
C511	87-015-503-089		CAP,E 22-16 LL	C933	87-010-322-089		C-CAP,S 100P-50 CH
C512	87-010-405-089		CAP,E 10-50 SME	C934	87-010-194-089		C-CAP,S 0.047-25 F
C513	87-018-133-089		CAP,TC-U 4700P-16 X	C936	87-010-197-089		C-CAP,S 0.01-25 B
C514	87-010-406-089		CAP,E 22-50 SME	C937	87-010-317-089		C-CAP,S 39P-50 CH
C515	87-010-405-089		CAP,E 10-50 SME	C938	87-010-317-089		C-CAP,S 39P-50 CH
C516	87-010-405-089		CAP,E 10-50 SME	C939	87-010-405-089		CAP,E 10-50 SME
C517	87-010-405-089		CAP,E 10-50 SME	C940	87-010-196-089		C-CAP,S 0.1-25 F
C518	87-010-384-089		CAP,E 100-25 SME	C941	87-010-318-089		C-CAP,S 47P-50 CH
C519	87-010-405-089		CAP,E 10-50 SME	C942	87-010-404-089		CAP,E 4.7-50 SME
C520	87-010-405-089		CAP,E 10-50 SME	C943	87-010-197-089		C-CAP,S 0.01-25 B
C525	87-010-101-089		CAP,E 220-16 SME	C944	87-010-194-089		C-CAP,S 0.047-25 F
C533	87-010-404-089		CAP,E 4.7-50 SME	C945	87-010-197-089		C-CAP,S 0.01-25 B
C534	87-010-404-089		CAP,E 4.7-50 SME	C946	87-010-404-089		CAP,E 4.7-50 SME
C542	87-010-560-089		CAP,E 10-50 GAS	C947	87-010-197-089		C-CAP,S 0.01-25 B
C544	87-010-404-089		CAP,E 4.7-50 SME	C948	87-010-404-089		CAP,E 4.7-50 SME
C545	87-018-119-089		CAP,TC-U 100P-50 B	C949	87-010-404-089		CAP,E 4.7-50 SME
C546	87-018-119-089		CAP,TC-U 100P-50 B	C950	87-010-196-089		C-CAP,S 0.1-25 F
C547	87-010-404-089		CAP,E 4.7-50 SME	C951	87-010-194-089		C-CAP,S 0.047-25 F
C549	87-010-404-089		CAP,E 4.7-50 SME	C952	CHIP CAP 0.01		CHIP CAP 0.01
C550	87-018-119-089		CAP,TC-U 100P-50 B	C956	87-010-197-089		C-CAP,S 0.01-25 B
C551	87-018-119-089		CAP,TC-U 100P-50 B	C960	87-010-194-089		C-CAP,S 0.047-25 F
C552	87-010-404-089		CAP,E 4.7-50 SME	C961	87-012-157-089		C-CAP,S 330P-50 CH
C553	87-018-119-089		CAP,TC-U 100P-50 B	C966	87-010-805-089		C-CAP,S 1-16F
C554	87-010-404-089		CAP,E 4.7-50 SME	C967	87-010-405-089		CAP,E 10-50 SME

チップ抵抗  
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号
1/32W	1608	±5%	CJ
1/10W	2125	±5%	CJ
1/8W	3216	±5%	CJ

チップ抵抗  
Chip resistor

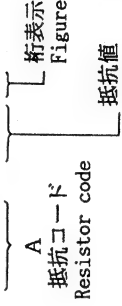
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号
1/32W	1608	±5%	CJ
1/10W	2125	±5%	CJ
1/8W	3216	±5%	CJ

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip resistor part coding

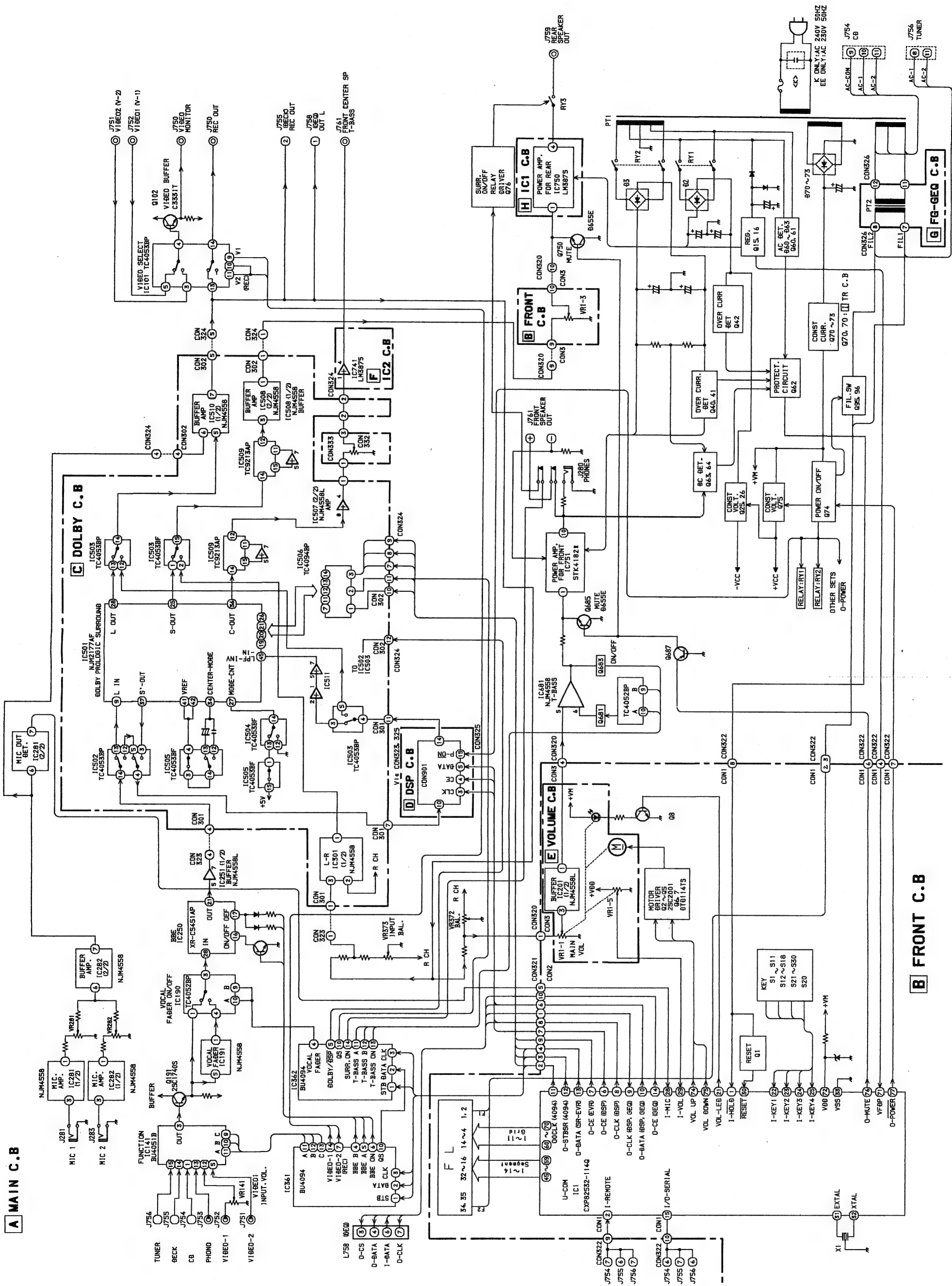
8 8 - □ □ □ □ - □ □ □ □



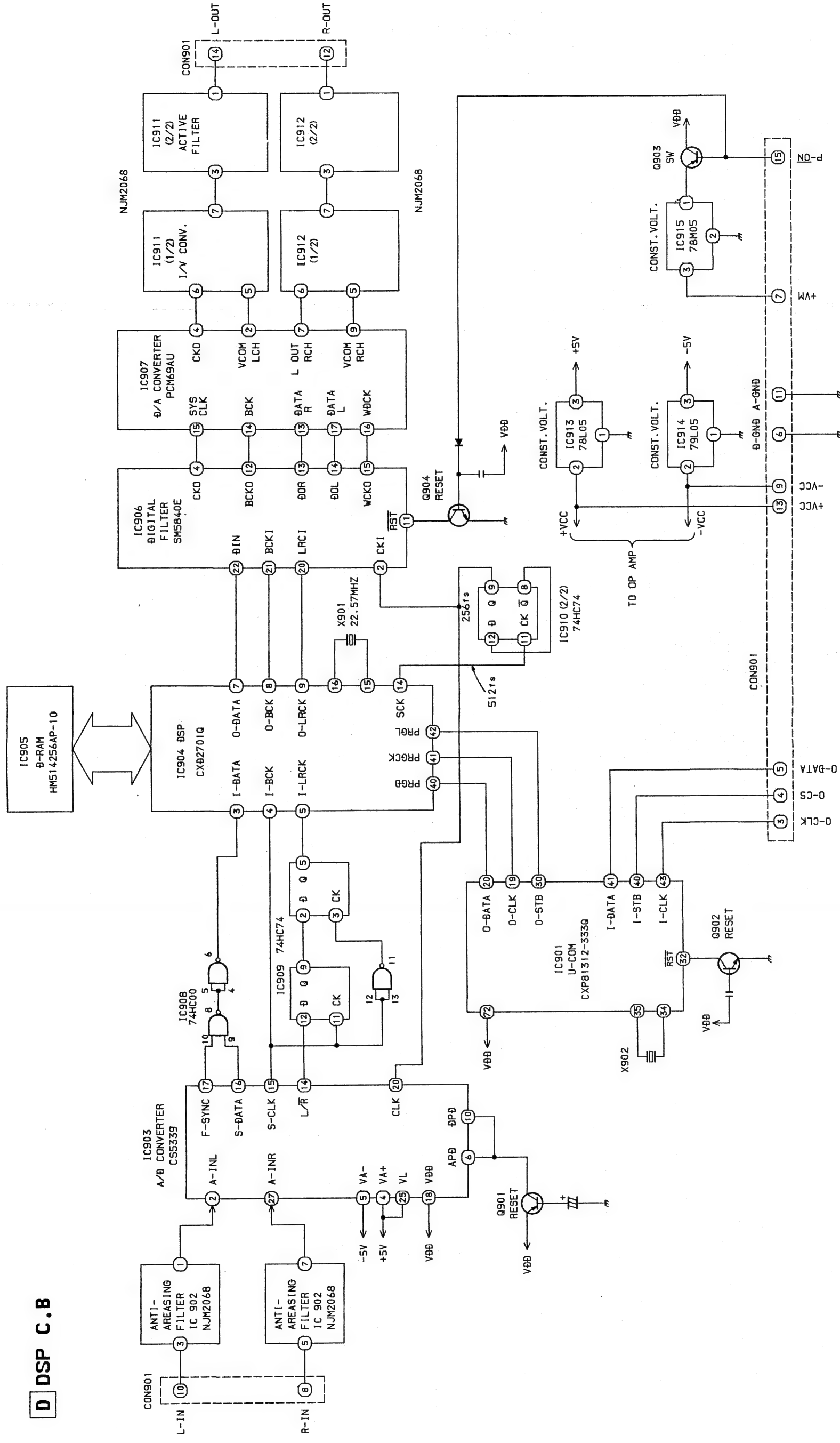
抵抗値  
Value of resistor

REF. NO	PART NO.	かんり NO.	DESCRIPTION	REF. NO	PART NO.	かんり NO.	DESCRIPTION
C973	87-010-197-089		C-CAP,S 0.01-25 B	IC2 C.B			
C974	87-010-401-089		CAP,E 1-50 SME				
C975	87-010-197-089		C-CAP,S 0.01-25 B	C740	87-010-405-089		CAP,E 10-50 SME
C976	87-010-318-089		C-CAP,S 47P-50 CH	C741	87-010-374-089		CAP,E 47-10
C977	87-010-194-089		C-CAP,S 0.047-25 F	C742	87-018-131-089		CAP,TC-U 1000P-50 B
C979	87-010-263-089		CAP,E 100-10	C746	87-018-214-089		CAP,TC-U 0.1-50 F
C980	87-010-263-089		CAP,E 100-10	C747	87-018-214-089		CAP,TC-U 0.1-50 F
C981	87-010-263-089		CAP,E 100-10	C748	87-018-196-089		CAP,TC-U 1500P-16 X
C982	87-010-263-089		CAP,E 100-10	C782	87-018-214-089		CAP,TC-U 0.1-50 F
C985	87-010-260-089		CAP,E 47-25 SME	C783	87-018-214-089		CAP,TC-U 0.1-50 F
C987	87-010-307-089		C-CAP, 680P-50 CH	FG-GEQ C.B			
C988	87-010-176-089		C-CAP,S 680P-50 SL				
C989	87-010-183-089		C-CAP,S 2700P-50 B	C34	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C990	87-010-183-089		C-CAP,S 2700P-50 B	C35	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C992	87-010-260-089		CAP,E 47-25 SME	C37	87-018-199-089		CAP,TC-U 3300P-16 X<K>
C993	87-010-404-089		CAP,E 4.7-50 SME	C749	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C994	87-010-404-089		CAP,E 4.7-50 SME	J761	84-VP1-638-019		JACK,PIN 2P BK,OR
C997	87-010-320-089		C-CAP,S 68P-50 CH	P72	82-VP1-630-019		PT,2VP-1 FL
C998	87-010-320-089		C-CAP,S 68P-50 CH	RY4	87-045-344-010		RELAY,G5B-1 12V
C999	87-010-320-089		C-CAP,S 68P-50 CH				
FB1	87-005-521-089		C-COIL,BLM32A06(EMI)	IC1 C.B			
FB2	87-005-521-089		C-COIL,BLM32A06(EMI)				
FB3	87-008-372-089		FLTR,EMI BL OIRNI				
FB4	87-008-372-089		FLTR,EMI BL OIRNI				
FB5	87-008-372-089		FLTR,EMI BL OIRNI	TR C.B			
FB6	87-008-372-089		FLTR,EMI BL OIRNI				
FB7	87-005-521-089		C-COIL,BLM32A06(EMI)	AC1 C.B			
L901	87-005-153-089		COIL,47UH				
L903	87-005-153-089		COIL,47UH				
L904	87-005-153-089		COIL,47UH				
X901	87-030-310-089		VIB,XTAL 22.5792MHZ				
X902	87-008-394-089		CF CST 4.19 MGV				
VOLUME C.B							
C201	87-010-405-089		CAP,E 10-50 SME				
C202	87-010-405-089		CAP,E 10-50 SME				
C203	87-010-405-089		CAP,E 10-50 SME	AC2 C.B			
C204	87-010-405-089		CAP,E 10-50 SME				
C205	87-010-404-089		CAP,E 4.7-50 SME	ΔCF1	87-033-213-089		CLAMP FUSE SMK
C206	87-010-404-089		CAP,E 4.7-50 SME	ΔCF2	87-033-213-089		CLAMP FUSE SMK
C207	87-018-205-089		CAP,TC-U 0.022-25 F	ΔF1	87-035-367-019		FUSE,3.15A 250V T E
C209	87-018-119-089		CAP,TC-U 100P-50 B	ΔPT1	84-VP1-608-019		PT,4VP-1 E,K
C210	87-018-119-089		CAP,TC-U 100P-50 B	R96	87-022-200-089		RES,METAL 0.56-1W
VR1	82-VP1-633-019		VR,50KEX4,100KCX1 W/M	R97	87-022-200-089		RES,METAL 0.56-1W

A MAIN C.B



**D DSP C.B**







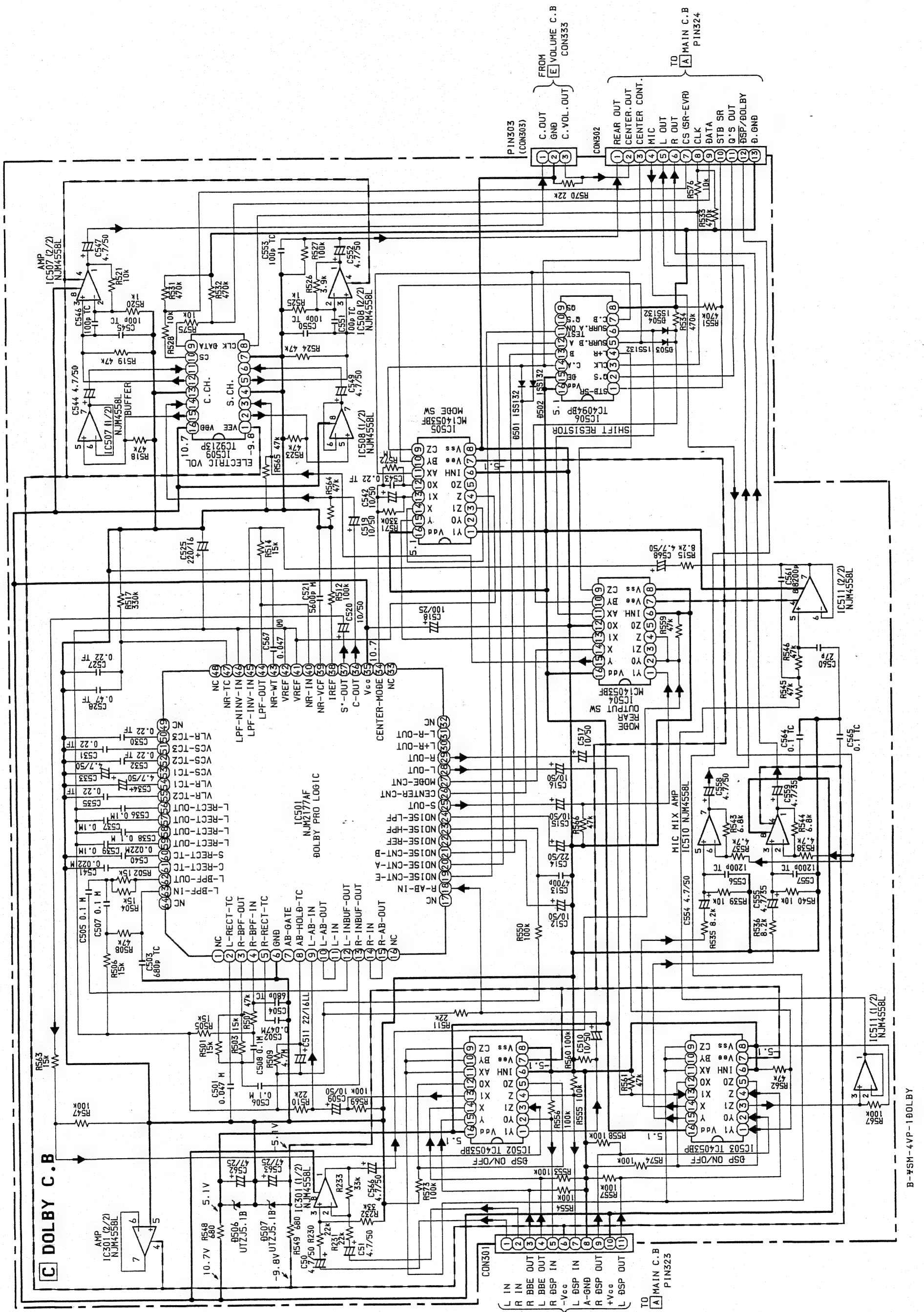


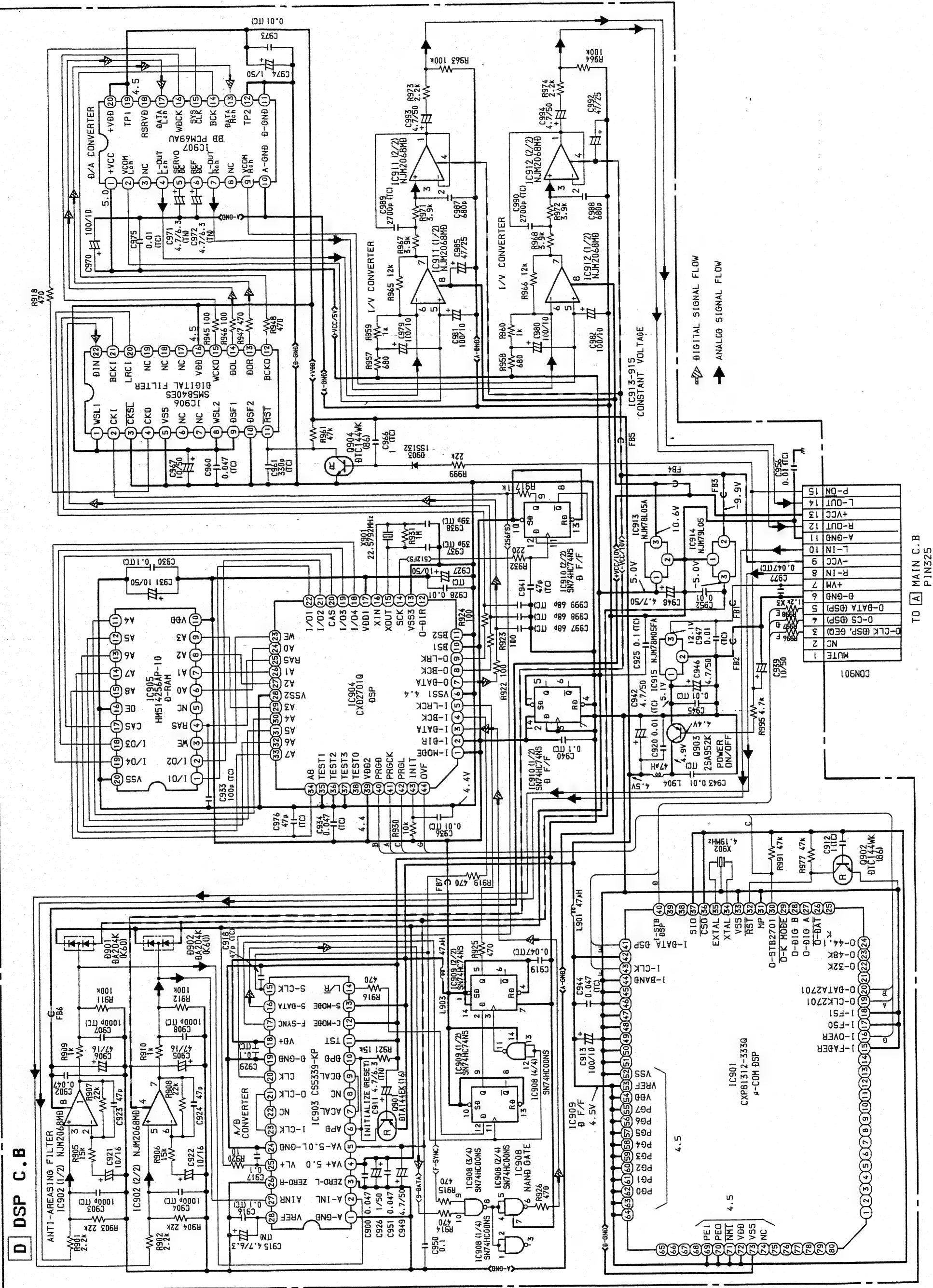
17.000 AS.10









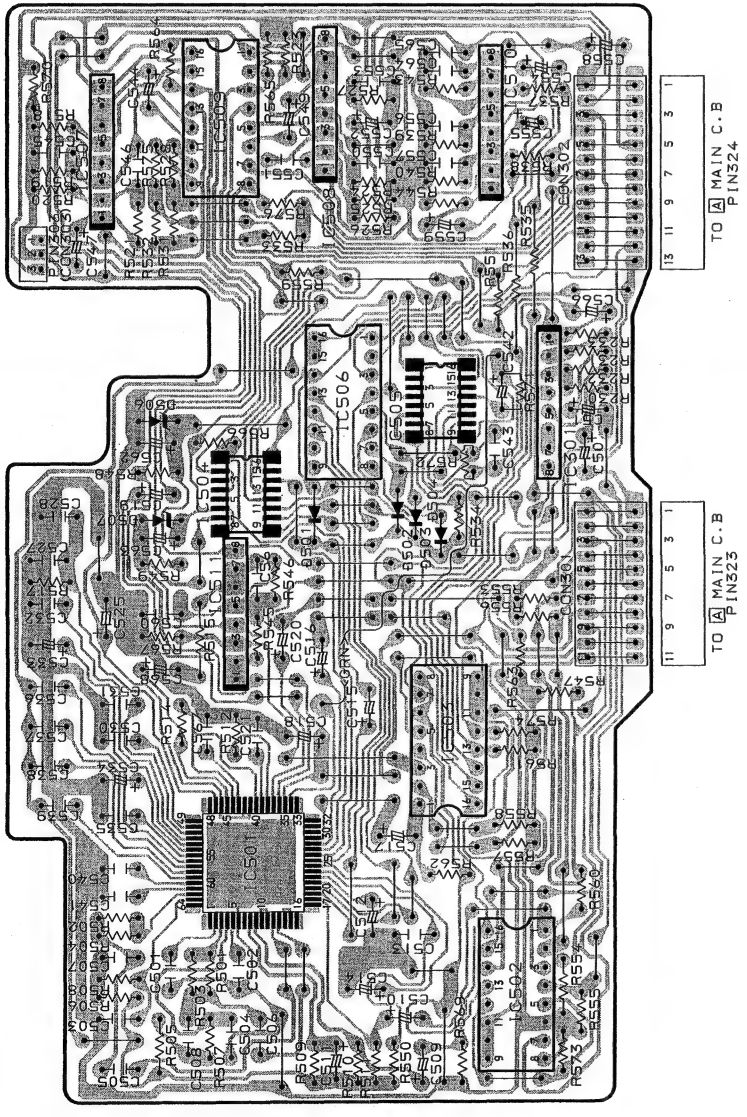




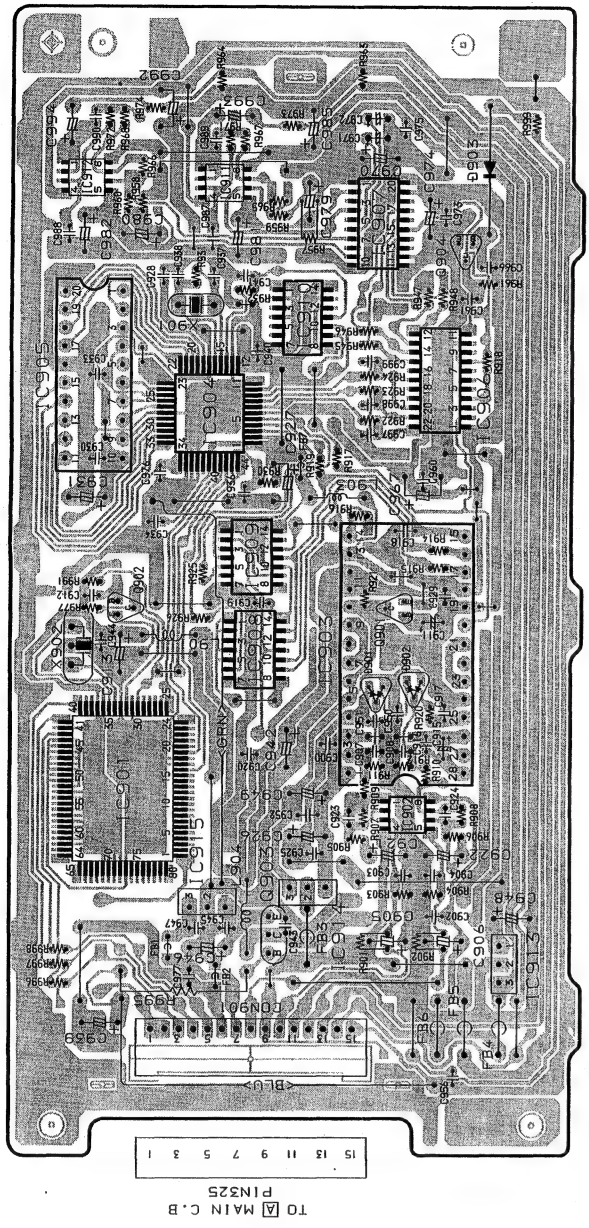
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A B C D E F G H I J K

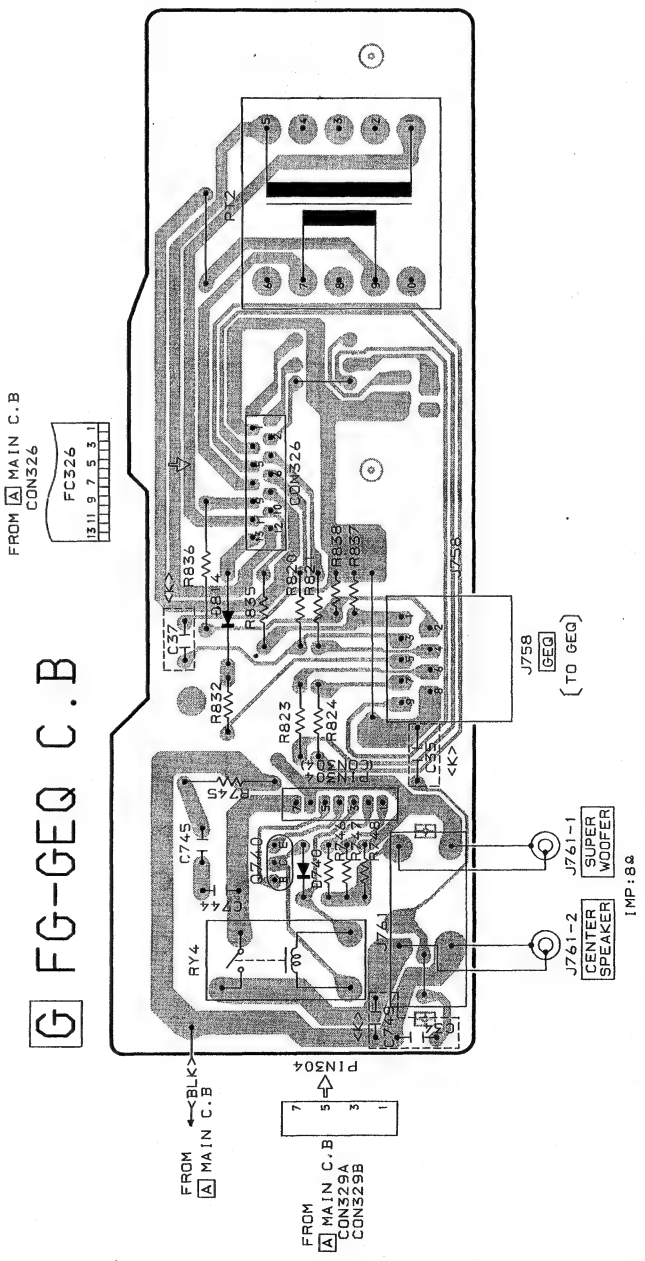
C DOLBY C.B

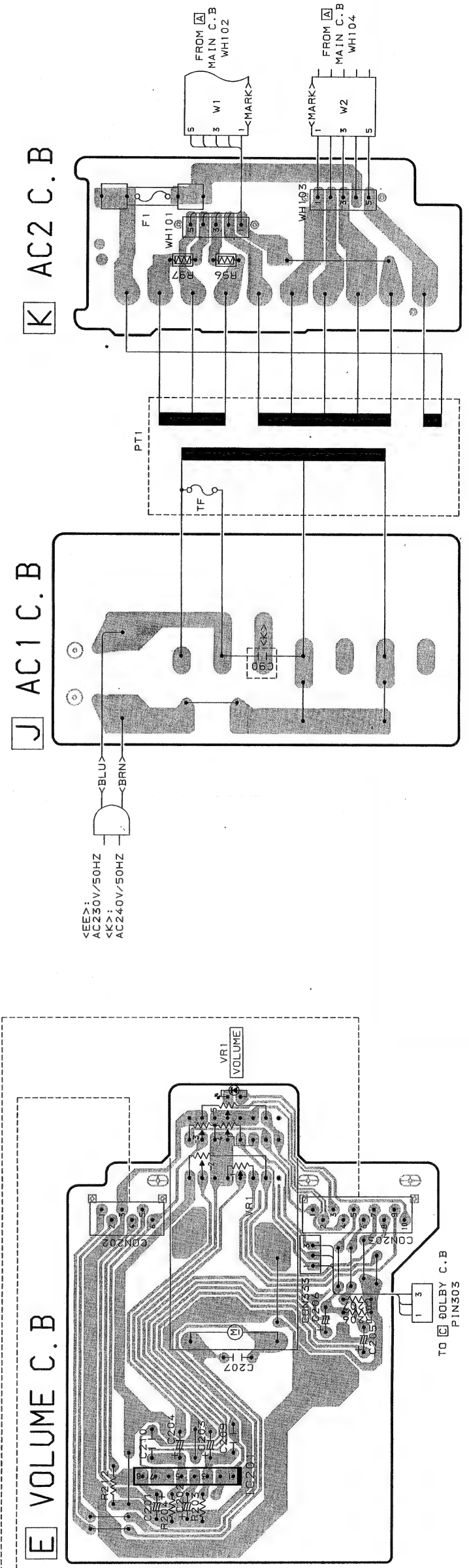
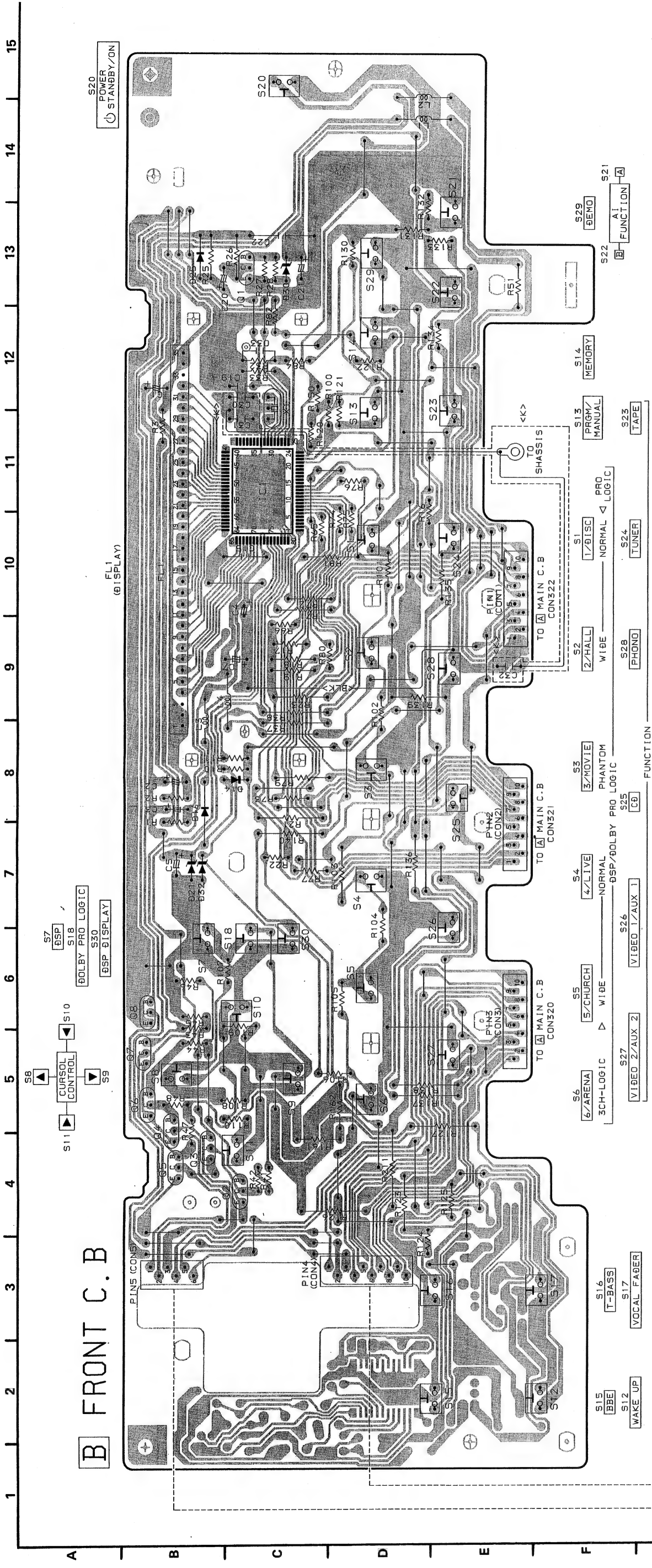


D DSP C.B

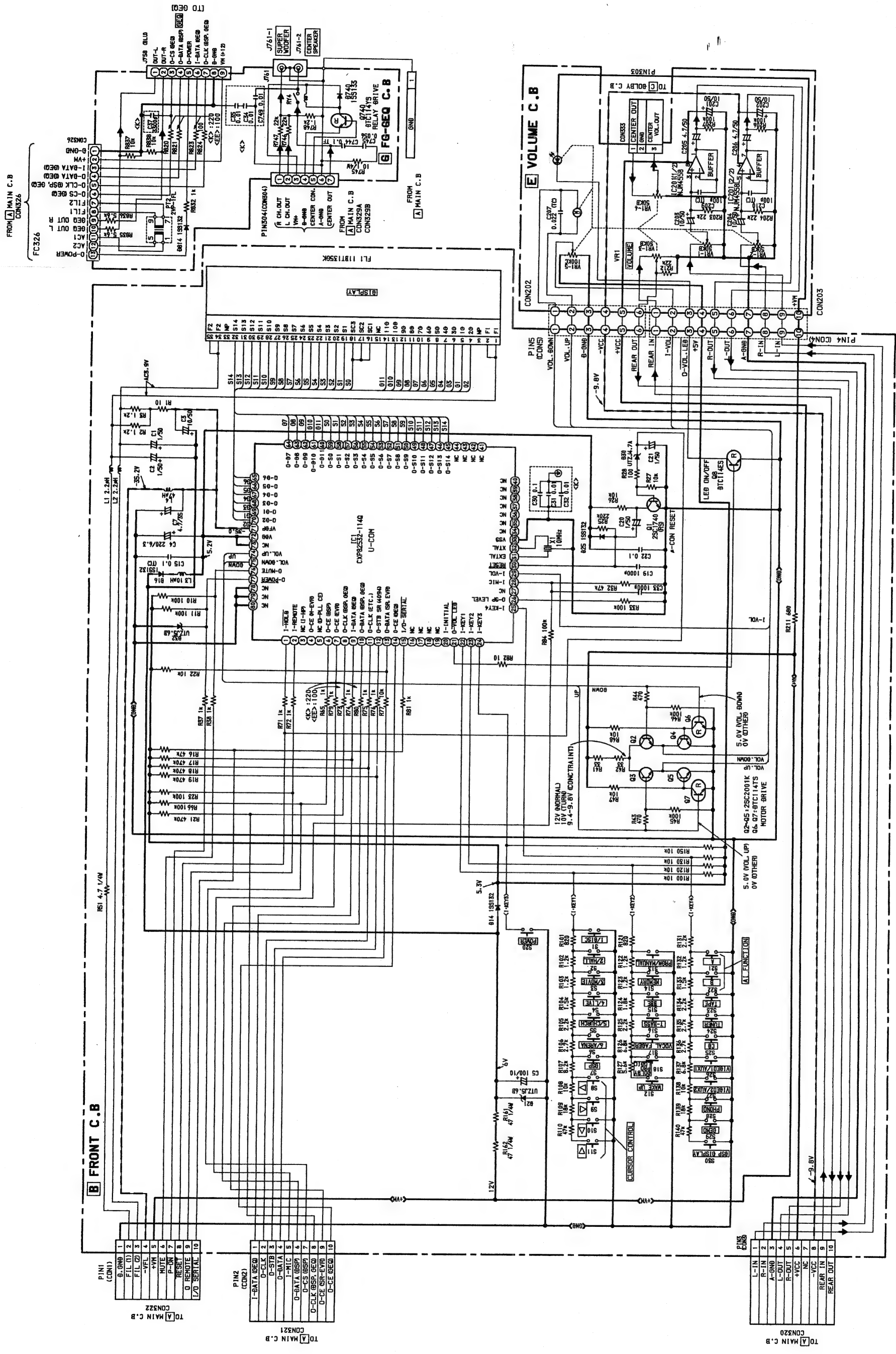


G FG-GEQ C.B

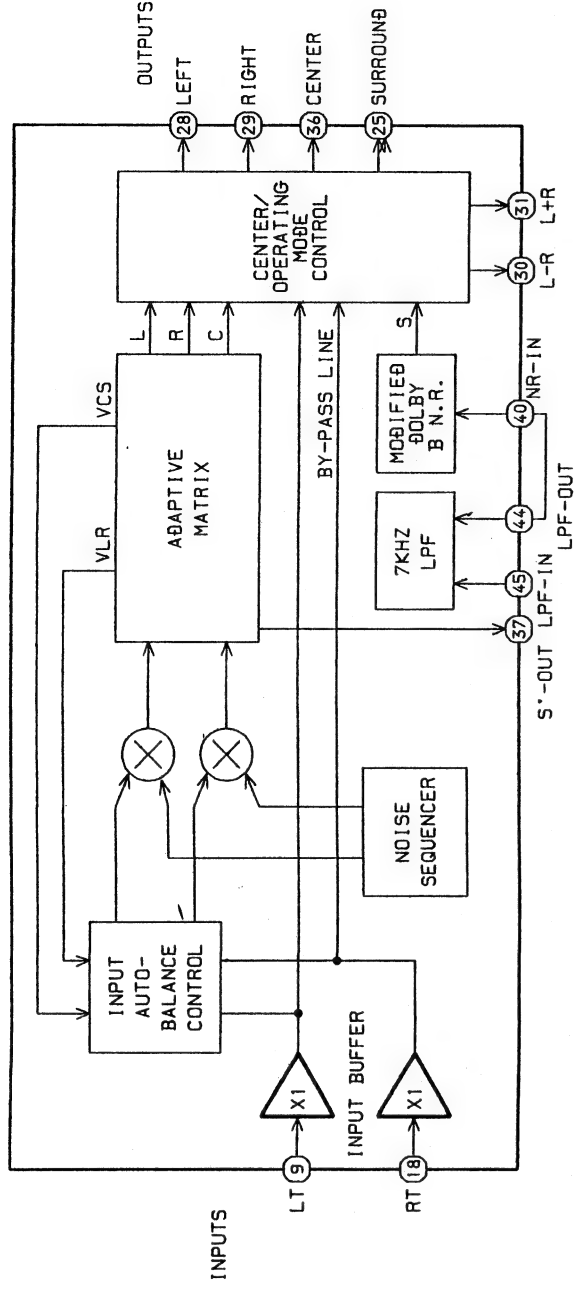






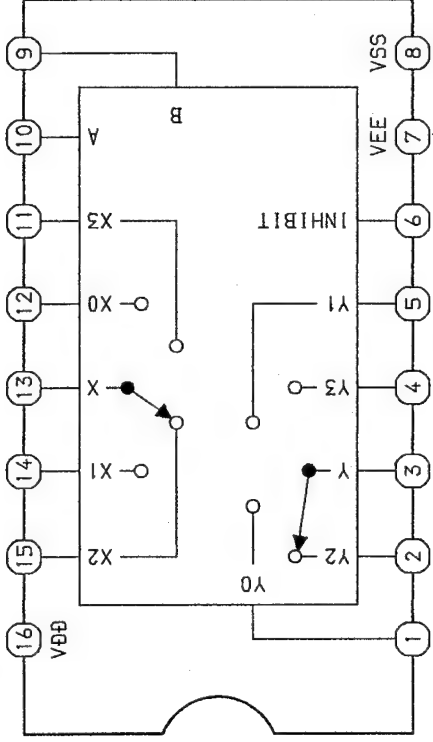


IC, NJM2177AF



The diagram illustrates the internal architecture of the TC9213P IC. It features two main processing blocks: a left block for LCH (Line Character) and a right block for RCH (Right Channel). Each block contains a 10dB DATA LATCH, a LOUDNESS LATCH, and a 1dB DATA LATCH. The LCH block is connected to pins 2 (OUT1), 3 (IN1), 4 (A-GND), 5 (OUT2), and 6 (IN2). The RCH block is connected to pins 15 (OUT1), 14 (IN1), 13 (A-GND), 12 (OUT2), and 11 (IN2). A central LEVEL SHIFT CIRCUIT receives signals from the LOUDNESS LATCHES and provides inputs to a DECODER CIRCUIT and a STROBE GENERATING CIRCUIT. The DECODER CIRCUIT outputs to pin 8 (CK), and the STROBE GENERATING CIRCUIT outputs to pin 10 (STB). Both the DECODER and STROBE GENERATING CIRCUITS are connected to a common 14-BIT SHIFT REGISTER CIRCUIT, which outputs to pin 9 (DATA). Power pins include VSS (1) and VDD (20). Ground connections are shown for A-GND (4, 13) and GND (7).

IC, TC4052



TRUTH TABLE

CONTROL INPUTS			ON SWITCH
INHIBIT	B	A	
L	L	L	Y0 X0
L	L	H	Y1 X1
L	H	L	Y2 X2
L	H	H	Y3 X3
H	X	X	— —

L: LOW LEVEL  
H: HIGH LEVEL  
H: IRRELEVANT

## IC DESCRIPTION (MX-Z9300M)

### IC, PCM69AU

Pin No.	Pin Name	I/O	Description
1	+VCC	-	Power supply. (+5V)
2	V COM (L)	O	V common for L-Channel.
3	NC	-	Not used.
4	I-OUT (L)	O	Current output for L-channel.
5	SERVO DC	-	Servo filter. Bypassed via capacitor to GND.
6	REF DC	-	Reference filter. Bypassed via capacitor to GND.
7	I-OUT (R)	O	Current output for R-channel.
8	NC	-	Not used.
9	V COM (R)	O	V common for R-channel.
10	A GND	-	Analog GND.
11	D-GND	-	Digital GND.
12	TP2	I	Test terminal 2. (Connected to GND)
13	DATA (R)	I	Data input for R-channel.
14	BCK	I	Bit clock input.
15	SYS-CLK	I	System clock input.
16	WDCK	I	Word clock input.
17	DATA (L)	I	Data input for L-channel.
18	TP3	I	Test terminal 3. (Not used)
19	TP1	I	Test terminal 1. (Connected to VDD)
20	+VDD	-	Power supply. (+4.5V)

# IC, CXP82532-114Q

Pin No.	Pin Name	I/O	Description
1	I-HOLD	I	HOLD input. "L": Normal mode.
2	I-REMOTE	I	Remote control input.
3	NC	-	Not used.
4	O-CE (M-EVR)	O	Not used.
5	NC	-	Not used.
6	O-CE (DSP)	O	Strobe output for DSP microcomputer.
7	O-CE (EVR)	O	Strobe output for electrical volume.
8	O-CLK (DSP, GEQ)	O	Clock output for DSP and GEQ.
9	I-DATA (GEQ)	I	Data input from GEQ microcomputer.
10	O-DATA (DSP, GEQ)	O	Data output for DSP and GEQ.
11	O-CLK (etc)	O	Clock for shift register and electrical volume.
12	O-0STB SR (4094)	O	Strobe output for shift register.
13	O-DATA (SR, EVR)	O	Data output for shift register and electrical volume.
14	O-CE (GEQ)	O	Strobe output for GEQ microcomputer.
15	I/O SERIAL	I/O	Serial data for system control.
16~19	NC	-	Not used.
20	I-INITIAL	I	Initialize input. (Not used)
21	O-VOL LED	O	Volume LED control output. LED light on when "H".
22~23	I-KEY1~I-KEY2	I	A/D input for key input.
24	I-KEY3	I	Key input. (Power)
25	I-KEY4	I	A/D input for key input.
26	O-SP LEVEL	-	Not used.
27	NC	-	Not used.
28	I-MIC	I	Microphone input detection A/D port. Vocal fader switched on at an input of over 0.34V in auto vocal fader mode. Reset time : Fast 1 sec., Slow 4 sec.
29	I-VOL	I	A/D input for volume position detection.
30	RESET	I	Reset input.
31	EXTAL	-	X'tal terminal. (10.0MHz)
32	XTAL	-	X'tal terminal. (10.0MHz)
33	VSS	I	GND.
34~44	NC	-	Not used.
45~59	O-S14-O-S0	O	FL display segment output.
60~70	O-G11-O-G1	O	FL display grid output.
71	VFDP	-	FL display power supply. (~31.4V)
72	VDD	-	Power supply. (+5V)
73	NC	-	Connected to VDD.
74	VOL UP	O	Volume control output. (UP)
75	VOL DOWN	O	Volume control output. (DOWN)
76	O-MUTE	O	Mute output. Muting when "H".
77	O-POWER	O	Power control output. Power on when "L".
78~80	NC	-	Not used.

# IC, CXP81312-333Q

Pin No.	Pin Name	I/O	Description
1~14	NC	O	Not used.
15	I-FADER	I	Connected to GND.
16	I-OVER	I	Not used.
17	I-FSO	I	Connected to GND.
18	I-FSI	I	Connected to GND.
19	O-CLK2701	O	Clock signal for CXD2701 control.
20	O-DATA2701	O	Serial data for CXD2701 control.
21	NC	O	Not used.
22	O-32K	O	Not used.
23	O-48K	O	Not used.
24	O-44.1K	O	Not used.
25	NC	O	Not used.
26	$\overline{\text{O-DAT}}$	O	Not used.
27	O-DIG A	O	Not used.
28	O-DIG B	O	Not used.
29	$\overline{\text{O-K MODE}}$	O	Not used.
30	O-STB2701	O	Strobe signal for CXD2701 control.
31	MP	O	Not used. (Connected to GND)
32	$\overline{\text{RST}}$	I	Reset signal for microcomputer.
33	VSS	-	GND.
34	XTAL	I	X'tal terminal. (4.19MHz)
35	EXTAL	-	X'tal terminal. (4.19MHz)
36	$\overline{\text{CSO}}$	I	Connected to VDD.
37	SIO	I	Connected to VDD.
38	SOO	O	Not used.
39	$\overline{\text{SCKO}}$	O	Not used.
40	I-STB DSP	I	Strobe signal input from main microcomputer.
41	I-DATA DSP	I	Data input from main microcomputer.
42	VDD	I	Connected to VDD.
43	I-CLK	I	Clock input from main microcomputer.
44	I-BAND	I	Connected to GND.
45~51	-	I	Connected to GND.
52	VSS	-	GND.
53	VREF	-	Connected to VDD.
54	VDD	-	Power supply. (+4.5V)
55~62	PG7~PG0	I	Connected to VDD.
63~68	-	O	Not used.
69	PEM	I	Connected to VDD.
70	PEO	I	Connected to VDD.
71	$\overline{\text{NMI}}$	I	Connected to VDD.
72	VDD	-	Power supply. (+4.5V)
73	VSS	-	GND.
74~80	-	O	Not used.

# IC, CXD2701Q

Pin No.	Pin Name	I/O	Description
1	I-MUTE	I	Input data format setting terminal. (Connected to VDD)
2	I-DIR	I	Input data format setting terminal. (Connected to VDD)
3	I-DATA	I	1-sampling 2-channel serial data input terminal. Data formatted as 2's complement.
4	I-BCK	I	Serial data transmission clock input.
5	I-LRCK	I	Serial I/O sampling clock input. L channel data transmission when "H", R channel data transmission when "L".
6	VSS1	-	GND.
7	O-DATA	O	Serial data output. (2's complement)
8	O-BCK	O	Bit clock output. 64 slots.
9	O-LRK	O	Serial data sampling clock output.
10	BS1	I	Output data bit quantity setting terminal. (Connected to VDD)
11	BS2	I	Output data bit quantity setting terminal. (Connected to GND)
12	O-DIR	I	Output data format setting terminal. (Connected to VDD)
13	VSS3	-	GND.
14	SCK	O	System clock output. fsk = fxt - 512fs
15	XOUT	O	X'tal oscillation circuit output. (22.57MHz)
16	XIN	I	X'tal oscillation circuit input. fxt = 512fs (22.57MHz)
17	VDD1	-	Pow supply. (+5V)
18~19	I/O4~3	I/O	Data input/output for external dynamic RAM.
20	CAS	O	Column address strobe output for external dynamic RAM.
21~22	I/O2~1	I/O	Data input/output for external dynamic RAM.
23	$\overline{WE}$	O	Write enable output for external dynamic RAM. "L" active.
24	A0	O	Address output for external dynamic RAM.
25	RAS	O	Low address strobe for external dynamic RAM.
26	A1~2	O	Address output for external dynamic RAM.
28	VSS2	-	GND.
29~34	A3~A8	O	Address output for external dynamic RAM.
35~37	TEST1~3	I	Test terminal. (Connected to GND)
38	TEST0	O	Test terminal. (Not used)
39	VDD2	-	Pow supply. (+5V)
40	PRGD	I	Serial data input to receive commands, coefficients and control signals from microcomputer.
41	PRGCK	I	Serial clock input for PRGD data. Data is latched at the starting edge of the clock.
42	PRGL	I	Input to latch serial data from microcomputer in IC. "L" active.
43	INIT	I	Initializing input. "L" active. Put in sync again at leading edge.
44	OVF	O	Not used.



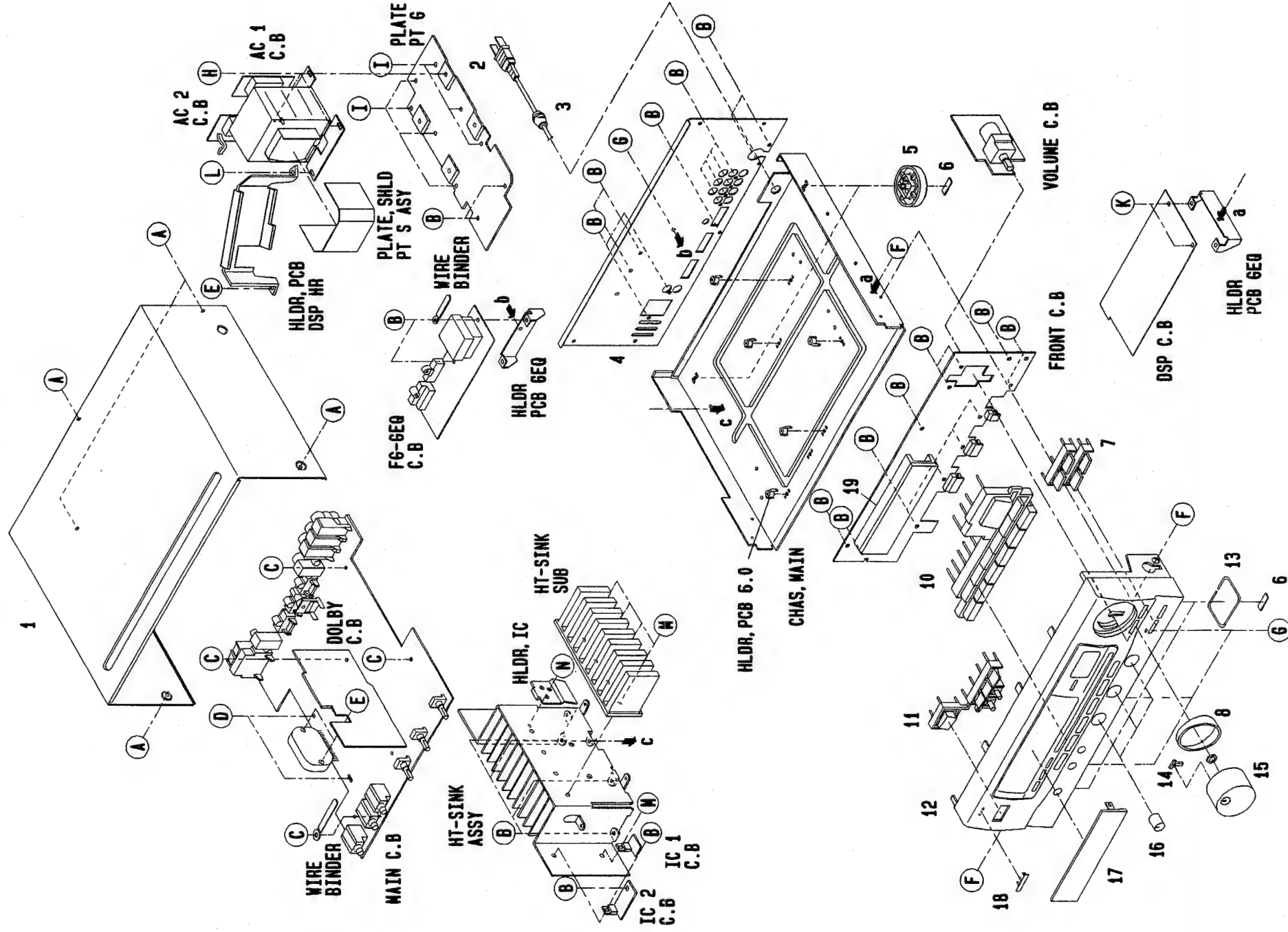
# IC, SM5840ES

Pin No.	Pin Name	I/O	Description					
			Input/output data word length select pin 1. (Connected to GND)	Pin level		Noise shaper	Input/Output word length	
				WSL1	WSL2		Input bit no.	Output bit no.
1	WSL1	I		H	H	OFF	18bit	20bit
				H	L	ON	18bit	18bit
				L	H	ON	16bit	18bit
				L	L	ON	16bit	16bit
2	CK1	I	System clock input.					
3	CKSL	I	System clock input (H : 384fs, L : 256fs). (Connected to VDD)					
4	CKO	O	System clock output. (The CKi clock is buffered and output.)					
5	VSS	-	GND.					
6~7	NC	-	Not connected.					
8	WSL2	I	Input/output data word length select pin2. (Connected to VDD)					
9	DSF1	I	Deemphasis select pin 1.	DFS1	DFS2	ON/OFF select	Deemphasis f/s select	
				H	L	ON	44.1kHz	
				H	H	ON	48.0kHz	
				L	H	ON	32.0kHz	
				L	L	OFF	-	
11	RST	I	System reset.					
12	BCKO	O	Output bit clock.					
13	DOR	O	Rch 8fs data output.					
14	DOL	O	Lch 8fs data output.					
15	WCKO	O	Output word clock.					
16	VDD	-	Power pin.					
17~19	NC	-	Not connected.					
20	LRC1	I	Input data sample rate (fs) clock.					
21	BCK1	I	Input bit clock.					
22	DIN	I	Input data.					

# IC, TMS44C256-10N

Pin No.	Pin Name	I/O	Description
1~2	I/O1~I/O2	I/O	Data input/output.
3	WE	-	Write enable output.
4	RAS	-	Row address strobe signal.
5	NC	-	Not used.
6~9	A0~A3	I	Address input.
10	VDD	-	Power supply. (+5V)
11~15	A4~A8	I	Address input.
16	OE	-	Output enable signal.
17	CAS	-	Column address strobe signal.
18~19	I/O3~I/O4	I/O	Data input/output.
20	VSS	-	GND.

# MECHANISM EXPLODED VIEW 1/1 (MX-Z9300M)



# MECHANICAL PARTS LIST 1/1 (MX-Z9300M)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝｼﾞ NO.	DESCRIPTION	REF. NO	PART NO.	ｶﾝｼﾞ NO.	DESCRIPTION
△ △	1 82-VP2-011-019	CAB, STEEL		A	87-067-641-019	UTT2+3-8 W/O SLOT BLK	
	2 87-050-100-019	AC CORD ASSY K3P(K)		B	87-067-660-019	BVT2+3-8W/O SLOT BLK	
	2 87-050-034-019	AC-CORD ASSY, E(EF)		C	87-067-759-019	BVT2+3-12(W/O SLOT)	
	3 87-085-185-010	BUSHING, AC CORD E		D	87-067-584-019	BVT2+3-6 W/O SLOT	
	4 85-VP1-017-019	PANEL REAR EEBN(EF)		E	87-067-581-019	BVT2+3-15 W/O SLOT	
	4 85-VP1-014-119	PANEL, REAR KBN(K)		F	87-591-094-419	OIT + 3 - 6 GOLD	
	5 81-VX1-012-019	FOOT, REAR		G	87-067-716-019	BVT2+3-6 BLK	
	6 82-VW2-211-019	FELT, 20-7, 5-2		H	87-078-019-019	S-SCREW, IT+4-6	
	7 85-VP1-005-019	KEY, BBE		I	87-067-586-019	BVT2 +4-8	
	8 85-VP1-007-019	RING, VOL		K	87-078-084-019	BVT2+3-6 W, CONVEX	
	10 85-VP1-004-110	KEY, FUN		L	87-067-975-019	S-SCREW IT+4-8	
	11 85-VP1-003-019	KEY, POWER		M	87-067-703-019	BVT2+3-10 (W/O SLOT)	
	12 85-VP1-009-019	CAB, FR E		N	87-761-094-419	VFT2+3-6 W/O SLOT GOLD	
	13 84-VMS-013-010	RING, FOOT					
	14 82-NE6-016-019	IND, MAIN (VOL)					
	15 85-VP1-008-019	KNOB, VOL					
	16 83-NE6-020-019	KNOB, MIC					
	17 85-VP1-006-019	WINDOW, AMP					
	18 82-NE8-032-019	BADGE AIWA 27.5					
	19 82-MA2-203-019	GUIDE, FL 2					

MODEL NO.

# FX - WZ9300

## CAUTIONS WHEN SERVICING (FX - WZ9300)

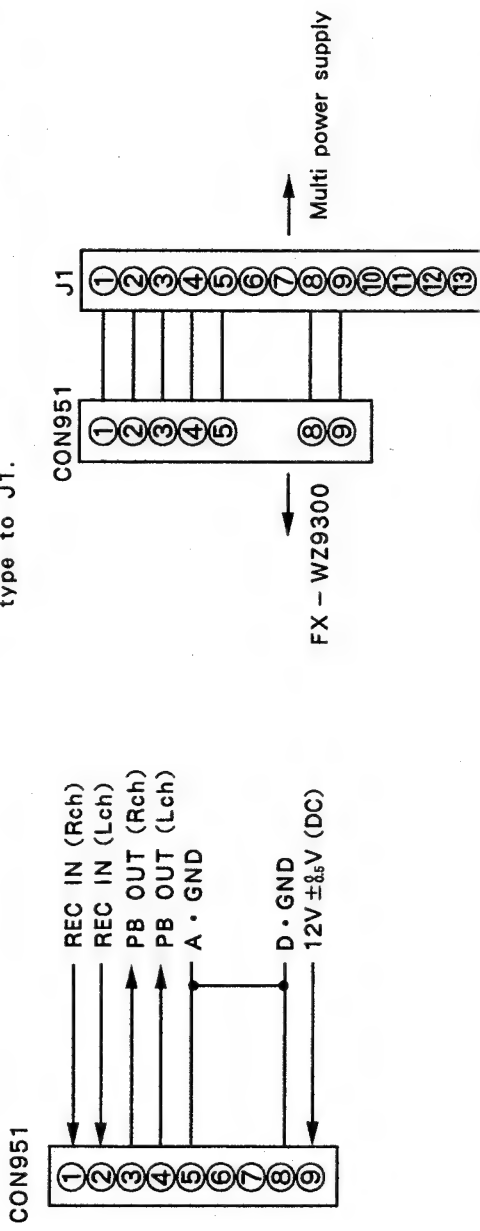
Model FX - WZ9300 does not have a power supply circuit. Power is supplied to it through a 9-pin flat cable and the signal inputs/outputs are also performed through this cable.  
When servicing the FX - WZ9300 connect it to the MX - Z9300M so power is supplied to the FX - WZ9300. If the MX - Z9300M is not available, follow the procedure below.

[When servicing the unassembled FX - WZ9300]

① Supply the following voltages to each terminal from an external power supply.

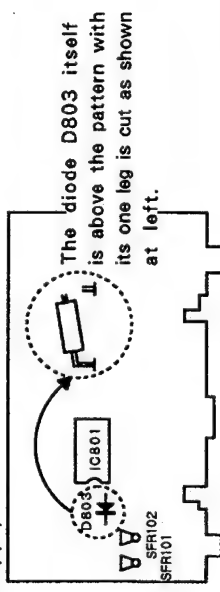
② Connection diagram when using multi power supply.  
(LPS - 9088)

• Connect a multi-conversion harness for the D5 type to J1.

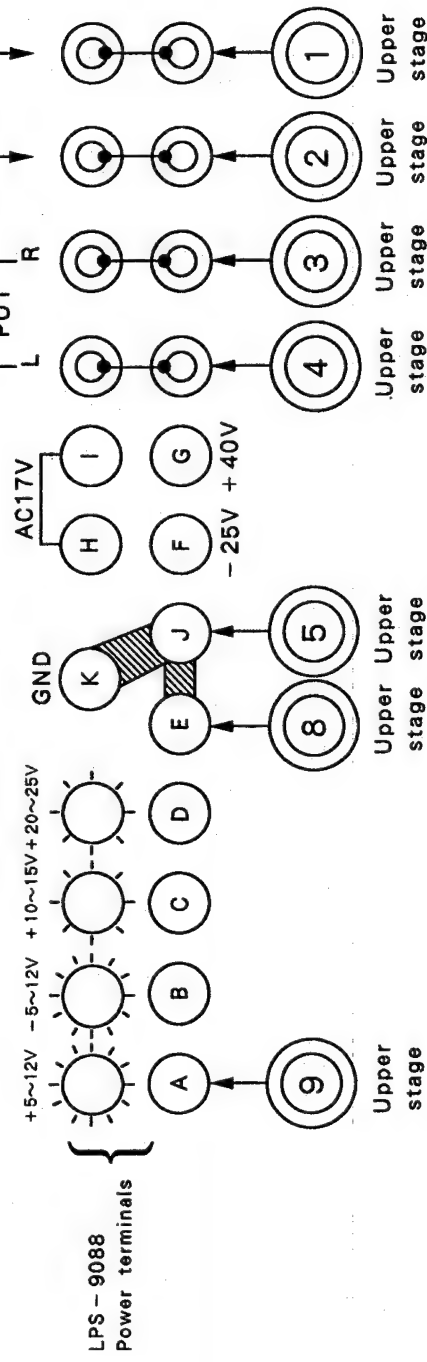


Connect a multi-conversion harness

• After connecting the multi-conversion harness, connect the leg of the diode D803 on the pattern of the main C.B. and then turn the multi-power supply on.



External equipment (amplifier, etc.) External equipment (sound source)



ELECTRICAL MAIN PARTS LIST (FX-WZ9300)

DESCRIPTIONで判断できない物は“REFERENME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

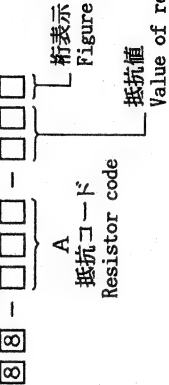
REF. NO	PART NO.	か/リ NO.	DESCRIPTION	REF. NO	PART NO.	か/リ NO.	DESCRIPTION
IC	87-020-454-010			C212	87-010-404-089		CAP, E 4.7-50 SME
	87-017-022-089		IC, DM6851	C213	87-010-101-089		CAP, E 220-16 SME
	87-001-224-089		IC, NJM2068M-D(T1)	C214	87-010-197-089		C-CAP, S 0.01-25 B
	87-020-730-089		IC, NJU4066BM	C215	87-010-197-089		C-CAP, S 0.01-25 B
	87-001-607-089		IC, TC4069UBF	C216	87-010-197-089		C-CAP, S 0.01-25 B
	87-017-023-089		IC, NJM4558M	C251	87-010-186-089		C-CAP, S 4700P-50 B
	87-001-908-019		IC, NJU4052BM	C252	87-010-149-089		C-CAP, S 5P-50 CH
	82-VW2-631-010		IC, CXA1332S	C253	87-010-182-089		C-CAP, S 2200P-50 B
	87-002-861-019		IC, LC66406-4B19	C254	87-010-596-089		C-CAP, S 0.047-16 RK
			IC, CXP2201 AS	C255	87-012-154-089		C-CAP, S 150P-50 CH
TRANSISTOR	87-026-463-080		TR, 2SA933S(RS)	C256	87-010-374-089		CAP, E 47-10
	87-026-223-089		C-TR, DTC143TK	C257	87-010-401-089		CAP, E 1-50 SME
	89-109-521-089		TR, 2SA952K	C258	87-010-149-089		C-CAP, S 5P-50 CH
	89-327-125-089		C-TR, 2SC2712GR	C259	87-010-178-089		C-CAP, S 1000P-50 B
	89-113-625-089		C-TR, 2SA1362GR (TAPG)	C301	87-010-321-089		C-CAP, S 82P-50 CH
	89-320-011-089		TR, 2SC2001K	C302	87-010-321-089		C-CAP, S 82P-50 CH
	89-503-685-089		C-FET, 2SK368GR	C303	87-010-183-089		C-CAP, S 2700P-50 B
	89-333-266-089		C-TR, 2SC3326B	C304	87-010-183-089		C-CAP, S 2700P-50 B
	87-026-227-089		C-TR, DTA114EK	C305	87-010-404-089		CAP, E 4.7-50 SME
	89-318-155-089		TR, 2SC1815GR	C306	87-010-404-089		CAP, E 4.7-50 SME
	89-112-965-089		TR, 2SA1296GR	C323	87-012-157-089		C-CAP, S 330P-50 CH
	87-026-210-089		C-TR, DTC144EK T147	C324	87-012-157-089		C-CAP, S 220P CH
	87-026-580-089		C-TR, DTA123JK	C402	87-012-156-089		C-CAP, S 220P CH
	89-413-023-089		TR, 2SD1302S	C403	87-014-071-089		CAP, PP 3900P-100 J
DIODE	87-002-564-089		DIODE, 1SS133 RA	C405	87-010-221-089		CAP, E 470-10
	87-020-330-089		C-DIODE, DAP202K	C409	87-010-402-089		CAP, E 2.2-50 SME
	87-020-584-089		C-ZENER, 02C25.6Y	C451	87-010-178-089		C-CAP, S 1000P-50 B
	87-020-123-059		DIODE, DS446 RA V-DT3	C453	87-010-322-089		C-CAP, S 100P-50 CH
	87-001-290-059		ZENER, HZS6BL RA	C454	87-010-322-089		C-CAP, S 100P-50 CH
	87-017-024-089		C-DIODE, DA204K	C501	87-010-015-089		C-CAP, S 560P-50 SL
	87-001-559-059		DIODE, 1SS131 RA	C502	87-010-015-089		C-CAP, S 560P-50 SL
	87-020-331-089		C-DIODE, DAN202K	C503	87-010-182-089		C-CAP, S 2200P-50 B
	87-017-069-059		ZENER, HZS3AI RA	C504	87-010-182-089		C-CAP, S 2200P-50 B
	87-001-731-059		ZENER, HZS6C2L RA	C505	87-010-404-089		CAP, E 4.7-50 SME
	87-017-091-089		ZENER, HZS5C1	C506	87-010-404-089		CAP, E 4.7-50 SME
	87-020-123-089		DIODE DS446-AT TA	C507	87-010-182-089		C-CAP, S 2200P-50 B
	87-027-329-089		ZENER, HZ22-3L	C508	87-010-182-089		C-CAP, S 2200P-50 B
MAIN C.B	87-012-158-089		C-CAP, S 390P-50 CH	C511	87-010-825-089		CAP, E 0.56-50 SME
	87-012-158-089		C-CAP, S 390P-50 CH	C512	87-010-825-089		CAP, E 0.56-50 SME
	87-010-318-089		C-CAP, S 47P-50 CH	C513	87-010-546-089		CAP, E 0.33-50 SME
	87-010-318-089		C-CAP, S 47P-50 CH	C514	87-010-546-089		CAP, E 0.33-50 SME
	87-010-426-089		C-CAP, S 0.012-25 B	C515	87-010-404-089		CAP, E 4.7-50 SME
	87-010-426-089		C-CAP, S 0.012-25 B	C516	87-010-404-089		CAP, E 4.7-50 SME
	87-012-154-089		C-CAP, S 0.012-25 B	C517	87-010-371-089		CAP, E 470-6.3
	87-012-154-089		C-CAP, S 150P-50 CH	C518	87-010-101-089		CAP, E 220-16 SME
	87-010-404-089		CAP, E 4.7-50 SME	C519	87-012-360-089		C-CAP, S 1-10PZ
	87-010-404-089		CAP, E 4.7-50 SME	C520	87-012-360-089		C-CAP, S 1-10PZ
	87-010-404-089		CAP, E 4.7-50 SME	C521	87-010-179-089		C-CAP, S 1200P-50 B
	87-010-404-089		CAP, E 4.7-50 SME	C522	87-010-179-089		C-CAP, S 1200P-50 B
	87-010-404-089		CAP, E 4.7-50 SME	C601	87-010-404-089		CAP, E 4.7-50 SME
	87-010-101-089		CAP, E 220-16 SME	C602	87-010-237-089		CAP, E 1000-16
	87-010-197-089		C-CAP, S 0.01-25 B	C603	87-010-101-089		CAP, E 220-16 SME
C201	87-012-157-089		C-CAP, S 330P-50 CH	C604	87-010-237-089		CAP, E 1000-16
	87-012-157-089		C-CAP, S 330P-50 CH	C605	87-010-198-089		C-CAP, S 0.022-25 B
	87-010-318-089		C-CAP, S 47P-50 CH	C606	87-010-546-089		CAP, E 0.33-50 SME
	87-010-318-089		C-CAP, S 47P-50 CH	C607	87-010-371-089		CAP, E 470-6.3
	87-010-426-089		C-CAP, S 0.012-25 B	C608	87-010-198-089		C-CAP, S 0.022-25 B
	87-010-426-089		C-CAP, S 0.012-25 B	C609	87-015-822-089		C-CAP 0.022
	87-010-426-089		C-CAP, S 0.012-25 B	C610	87-010-196-089		C-CAP, S 0.1-25 F
	87-012-156-089		C-CAP, S 220P CH	C611	87-010-197-089		C-CAP, S 0.01-25 B
	87-012-156-089		C-CAP, S 220P CH	C751	87-010-546-089		CAP, E 0.33-50 SME
	87-010-404-089		CAP, E 4.7-50 SME	C752	87-010-546-089		CAP, E 0.33-50 SME
	87-010-404-089		CAP, E 4.7-50 SME	C753	87-010-405-089		CAP, E 10-50 SME
	87-010-404-089		CAP, E 4.7-50 SME	C754	87-010-405-089		CAP, E 10-50 SME
	87-012-156-089		C-CAP, S 220P CH	C755	87-010-263-089		CAP, E 100-10
	87-012-156-089		C-CAP, S 220P CH	C756	87-010-260-089		CAP, E 47-25 SME
	87-010-404-089		CAP, E 4.7-50 SME	C801	87-010-404-089		CAP, E 4.7-50 SME

REF. NO	PART NO.	か/リ NO.	DESCRIPTION	REF. NO	PART NO.	か/リ NO.	DESCRIPTION
C951	87-012-140-089		C-CAP, S 470P-50 CH	S901	87-036-215-089		SW, TACT EVQ21404M
C952	87-010-186-089		C-CAP, S 4700P-50 B	S902	87-036-215-089		SW, TACT EVQ21404M
CF801	89-MX1-704-089		CERA LOCK(MU)3.9MHZ	S903	87-036-215-089		SW, TACT EVQ21404M
CON801	82-VW2-624-019		F-CABLE 3P-2.0	S904	87-036-215-089		SW, TACT EVQ21404M
CON951	82-VW2-623-019		CORD, FG 9P 750	S909	87-036-215-089		SW, TACT EVQ21404M
D151	87-070-108-019		LED, SLF301C-37	S911	87-036-215-089		SW, TACT EVQ21404M
D152	87-070-108-019		LED, SLF301C-37	S912	87-036-215-089		SW, TACT EVQ21404M
L301	87-005-525-089		COIL, 22MH-J	S913	87-036-215-089		SW, TACT EVQ21404M
L302	87-005-525-089		COIL, 22MH-J	S914	87-036-215-089		SW, TACT EVQ21404M
L303	87-003-131-089		COIL, 10MH J	S915	87-036-215-089		SW, TACT EVQ21404M
L304	87-003-131-089		COIL, 10MH J	S916	87-036-215-089		SW, TACT EVQ21404M
L305	87-003-123-089		COIL, 2.2MH J	S917	87-036-215-089		SW, TACT EVQ21404M
L306	87-003-123-089		COIL, 2.2MH J	T901	82-VW1-623-019		COIL FL
L401	80-VW1-605-119		COIL, OSC BIAS 108K				
L601	87-005-474-089		COIL, 12UH J FLR50				
L602	87-005-239-019		COIL, 100UH	DECK-1 C.B			
R408	87-025-471-089		RES NF 4.7-1/4WJ	M1	87-045-348-010		MOT, SHW2L-70
SFR101	87-024-349-089		SFR, 1K DIA6 H	PIN701	87-009-236-010		CONN, 8P PH H
SFR102	87-024-349-089		SFR, 1K DIA6 H	S912	87-024-170-080		SFR, 3.3K DIA 6V
SFR201	87-024-349-089		SFR, 1K DIA6 H	SFR2	87-024-171-080		SFR, 5.0K DIA 6V
SFR202	87-024-349-089		SFR, 1K DIA6 H	SOL1	82-ZM1-618-010		SOL ASSY, 27
SFR301	87-024-353-089		SFR, 10K DIA6 H	SOL4	87-036-378-080		SW, PUSH 1-1-1 SH2
SFR302	87-024-353-089		SFR, 10K DIA6 H	SW5	87-036-378-080		SW, PUSH 1-1-1 SH2
SFR401	87-024-356-089		SFR, 47K DIA6 H	SW6	87-036-378-080		SW, PUSH 1-1-1 SH2
SFR402	87-024-356-089		SFR, 47K DIA6 H				
FRONT-1 C.B				DECK-2 C.B			
S905	87-036-215-089		SW, TACT EVQ21404M	M2	87-045-348-010		MOT, SHW2L-70
S906	87-036-215-089		SW, TACT EVQ21404M	PIN702	87-009-752-010		CONN, 11P PH H WHT
S907	87-036-215-089		SW, TACT EVQ21404M	SFR1	87-024-170-080		SFR, 3.3K DIA 6V
S908	87-036-215-089		SW, TACT EVQ21404M	SOL2	82-ZM1-618-010		SOL ASSY, 27
FRONT-2 C.B				SW1	87-036-110-010		SW, PUSH SPPB 62
C901	82-VW1-201-019		GUIDE, FL	SW2	87-036-110-010		SW, PUSH SPPB 62
C904	87-018-214-089		CAP, TC-U 0.1-50 F	SW3	87-036-110-010		SW, PUSH SPPB 62
C908	87-016-251-049		CAP, E 220-16 SMG	SW4	87-036-110-010		SW, PUSH SPPB 62
C910	87-014-067-089		CAP, PP 2700P-100 J	SW5	87-036-110-010		SW, PUSH SPPB 62
C912	87-010-407-089		CAP, E 33-50 SME	SW6	87-036-110-010		SW, PUSH SPPB 62
C913	87-018-214-089		CAP, TC-U 0.1-50 F	RELAY-1 C.B			
C914	87-018-214-089		CAP, TC-U 0.1-50 F	PH	87-046-355-010		HEAD, PH HADKH2529B(D1)
C915	87-018-134-089		CAP, TC-U 0.01-16				
CF901	89-MX1-704-089		CERA LOCK(MU)3.9MHZ	RELAY-2 C.B			
FL901	82-VW1-621-019		FL, BJT25GK	RPEH	87-046-356-010		HEAD, RPH HADKH5581B(D2)
FR901	87-025-471-089		RES NF 4.7-1/4WJ				
FR902	87-025-471-089		RES NF 4.7-1/4WJ				
L901	87-003-051-089		COIL, 4700H				
L902	87-003-102-089		COIL, 100H				

チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip resistor part coding

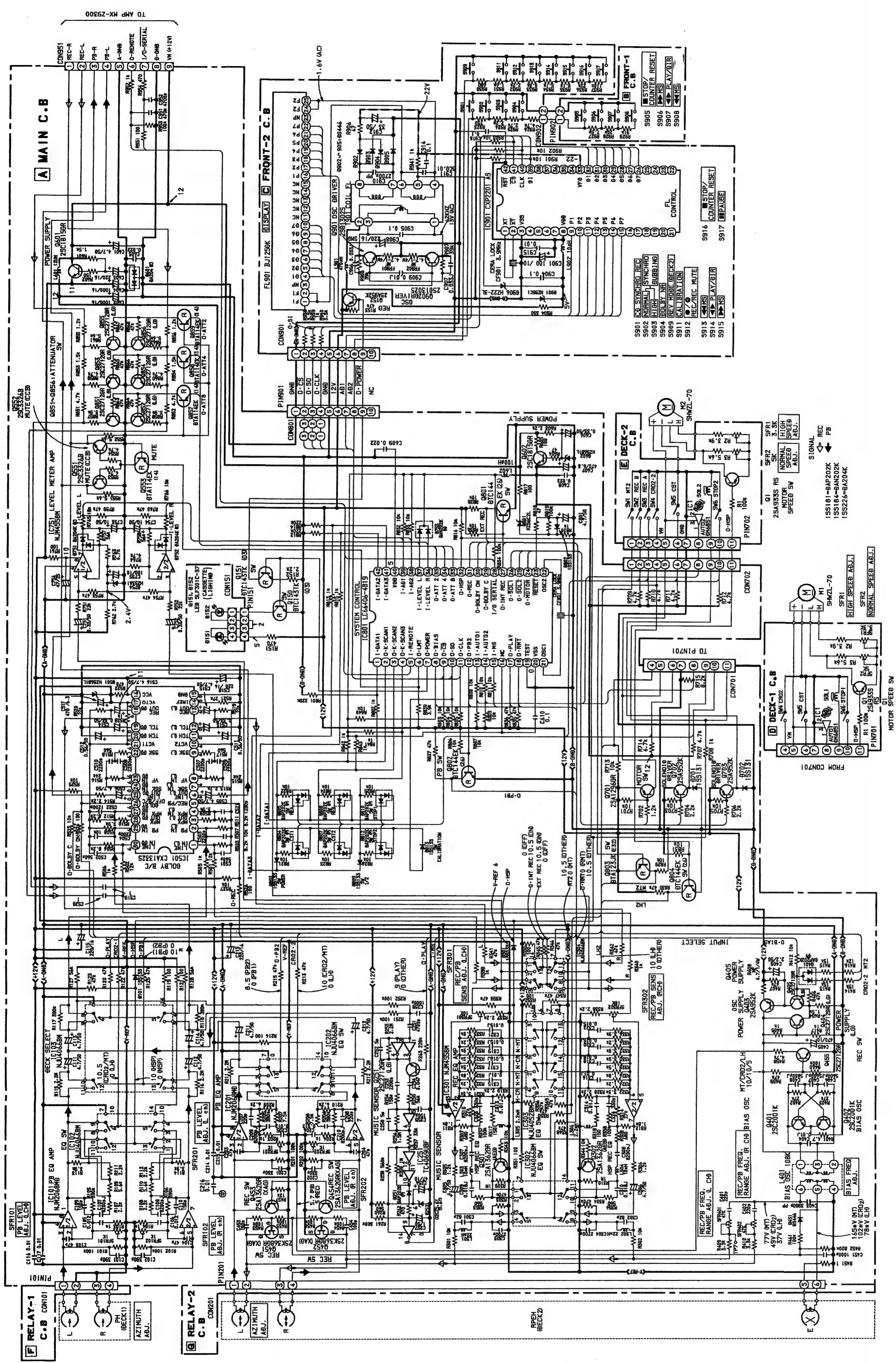


チップ抵抗

Chip Resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions / 寸法 (mm)	Resistor Code : A 抵抗コード : A
1/32W	1608	±5%	CJ	L 1.6 W 0.8 t 0.35	108
1/10W	2125	±5%	CJ	L 2 W 1.25 t 0.5	118
1/8W	3216	±5%	CJ	L 3.2 W 1.6 t 0.7	128







1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

# A MAIN C.B

TO [E] RELAY-1 C.B

CON101  
1 2 3 4

TO [C] FRONT-2 C.B

CON901

10 9 8 7 6 5 4 3 2 1

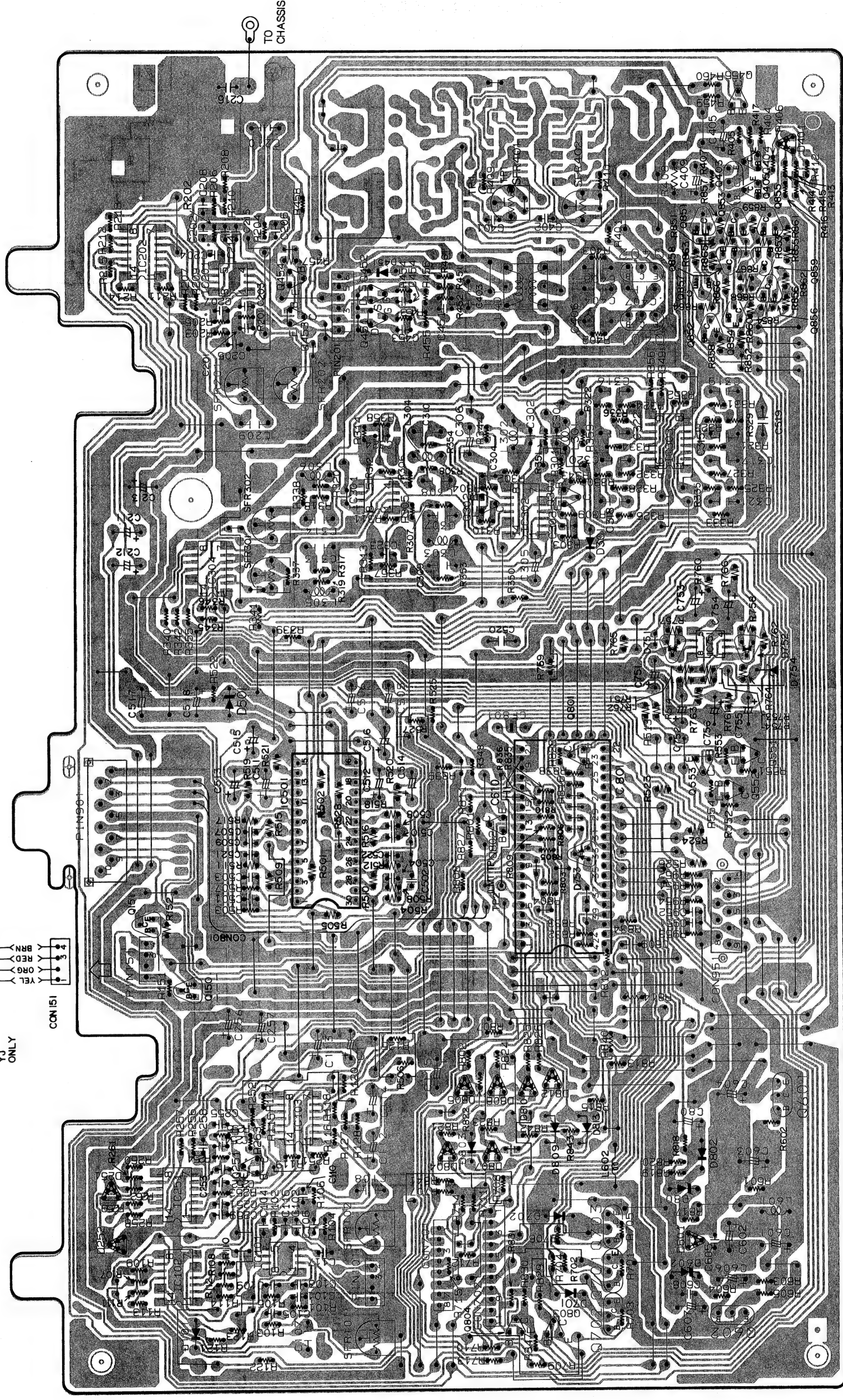
CASSETTE  
LIGHTING

D152 D151

BRN  
RED  
GRN  
YEL

YJ  
ONLY

CON151



11109 87654321

TO [E] BECK-2 C.B  
PIN702

87654321

TO [D] BECK-1 C.B  
PIN701

987654321

CON951

TO [AMP]

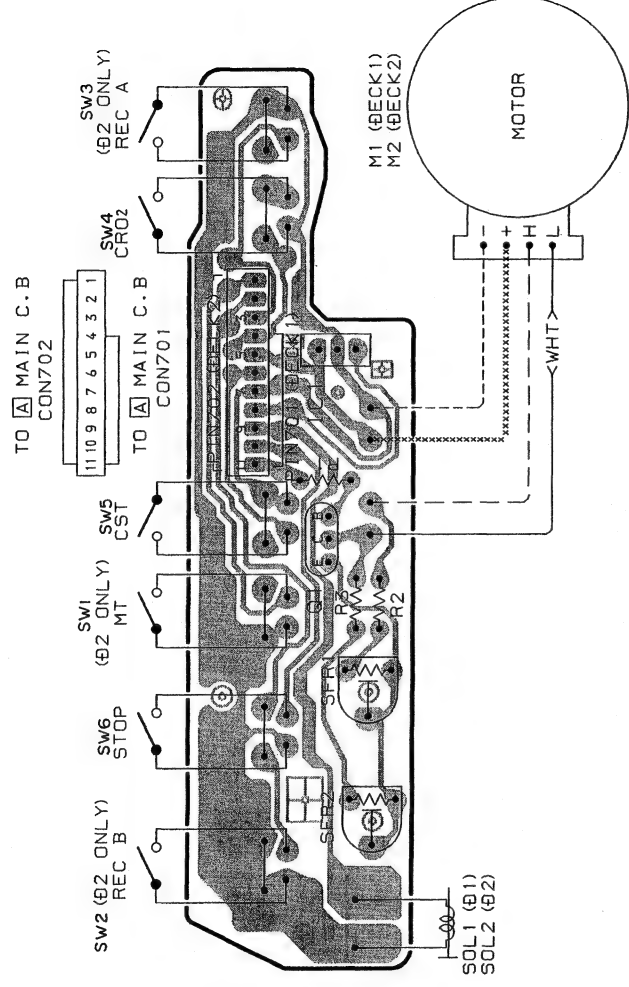
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF  
ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.  
(プリント基板内のケミコンの極性表示はθ表示です。)



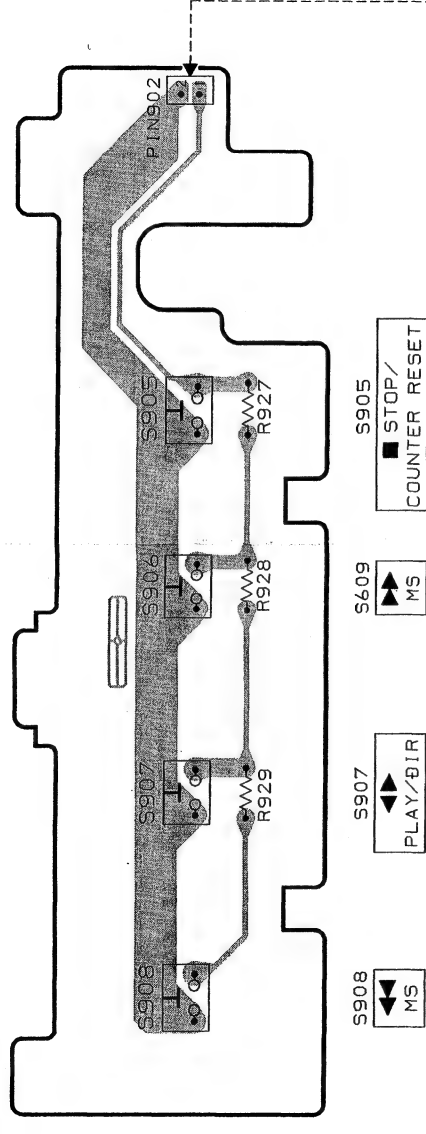


D DECK-1 C.B

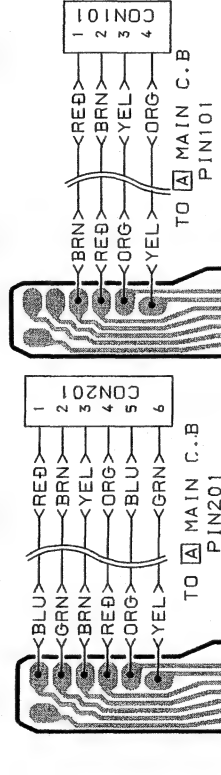
E DECK-2 C.B



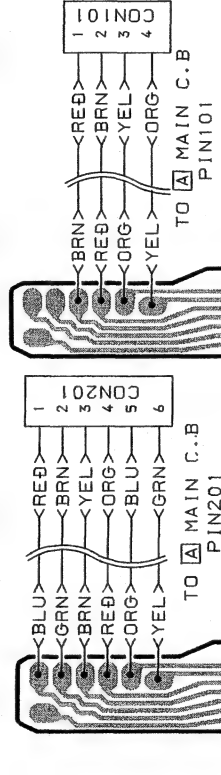
B FRONT-1 C.B



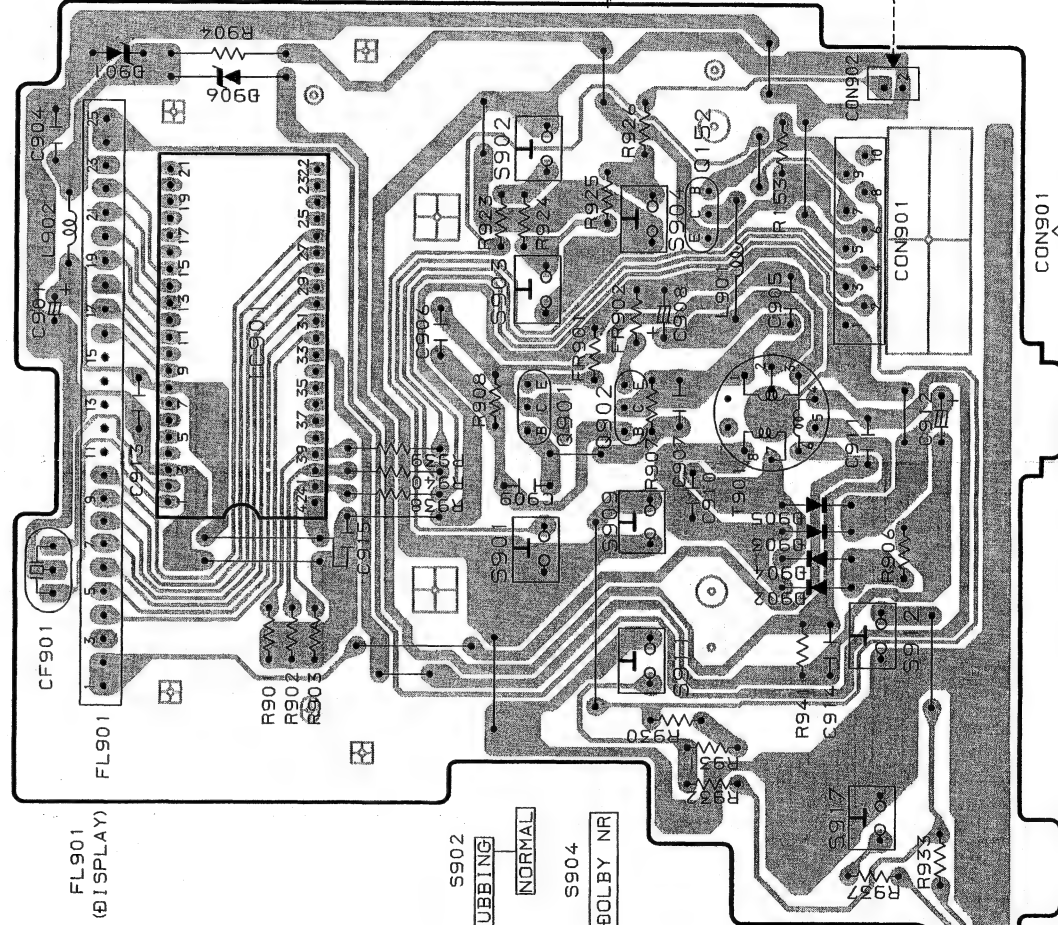
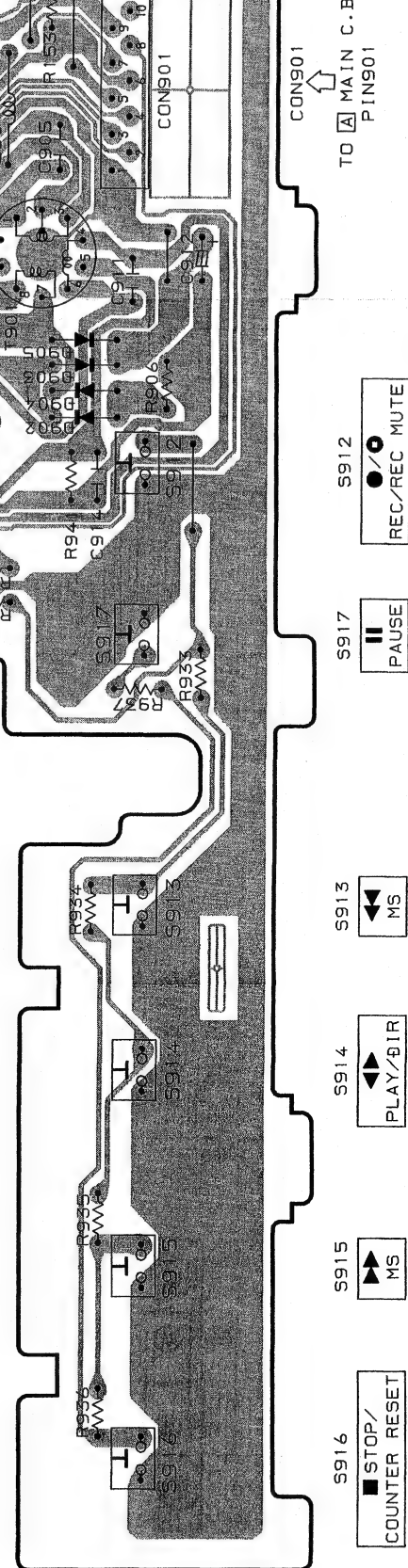
G RELAY-2 C.B



F RELAY-1 C.B

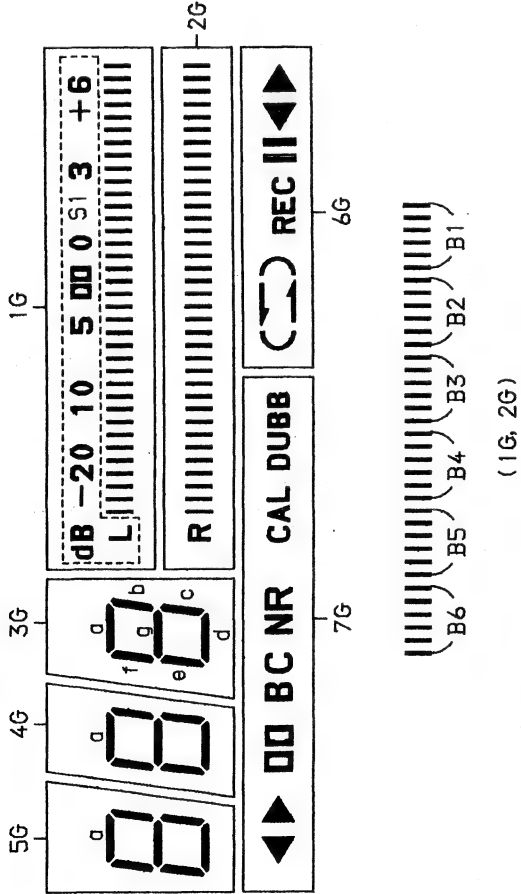


C FRONT-2 C.B





GRID ASSIGNMENT

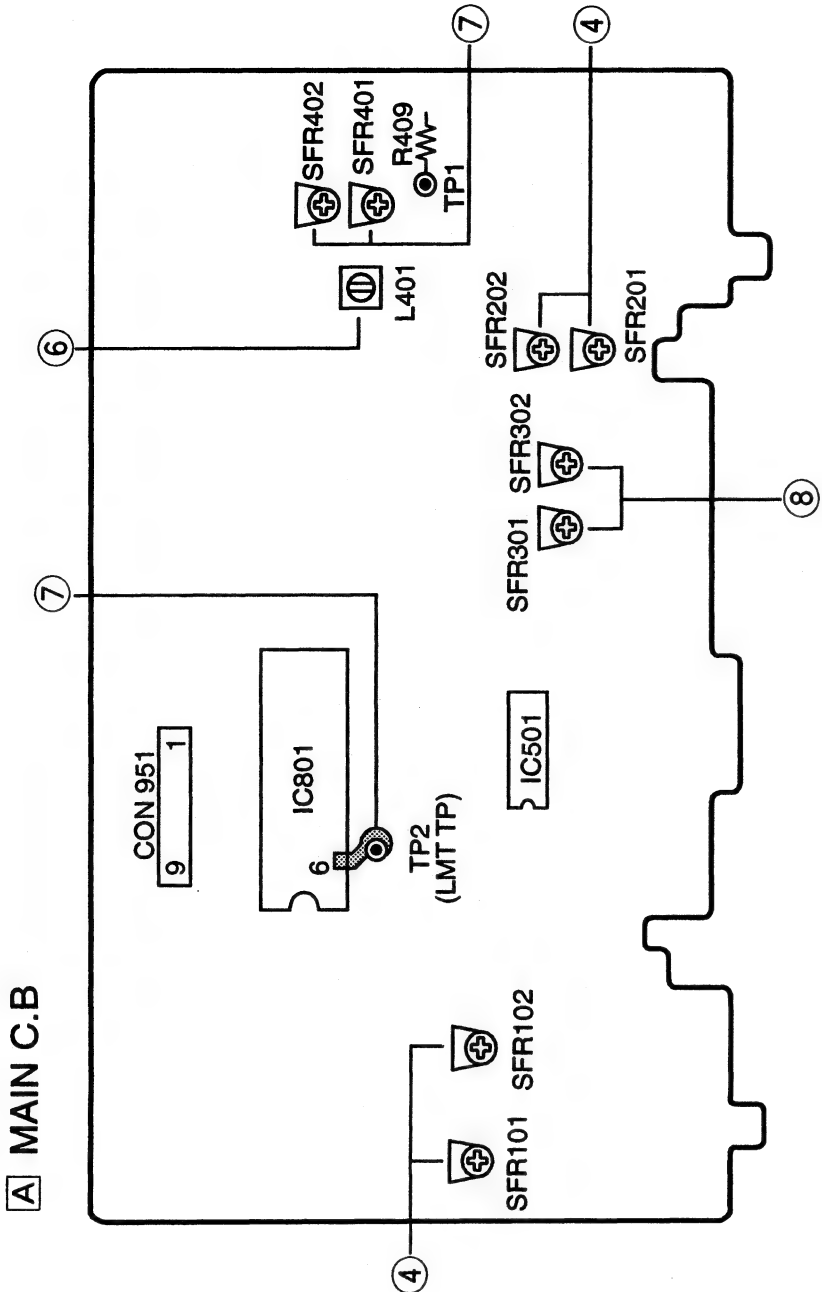
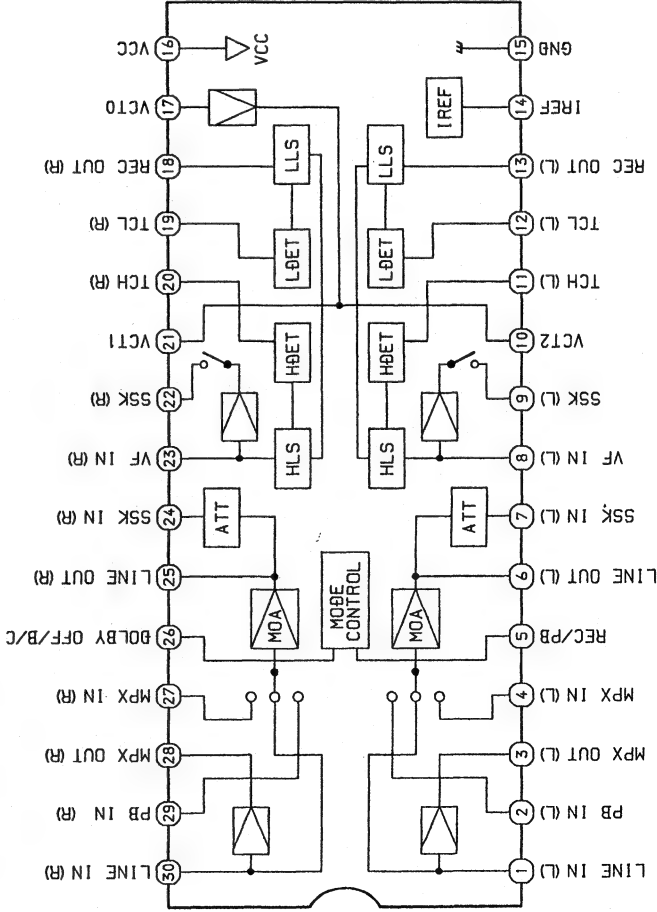


ANODO CONNECTION

	7G	6G	5G	4G	3G	2G	1G
P1	DUBB	▶	a	a	a	B1	B1
P2	CAL	◀	b	b	b	B2	B2
P3	C		c	c	c	B3	B3
P4	B	REC	d	d	d	B4	B4
P5	NR	⌋	e	e	e	B5	B5
P6	▶	≡	f	f	f	B6	B6
P7	◀	C	g	g	g	R	S1

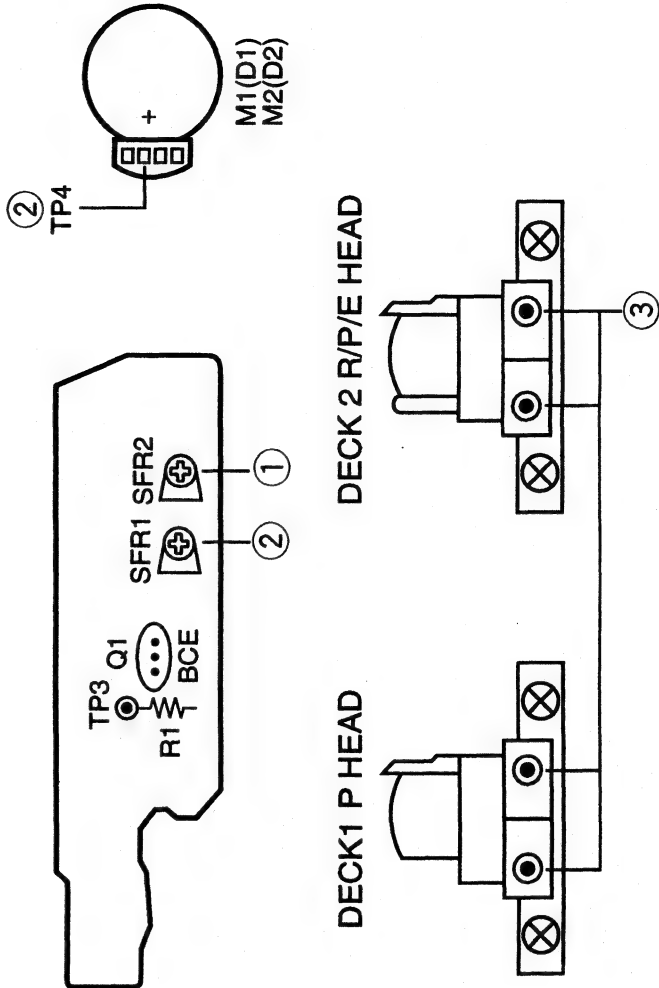
IC BLOCK DIAGRAM (FX-WZ9300)

IC, CXA1332S



D DECK-1 C.B

E DECK-2 C.B



#### 1.Normal speed adjustment (DECK1,DECK2)

Settings:·Test tape:TTA-100

·Test point:PB-OUT (CON951)

·Adjustment location:SFR2

Method: Play back the test tape, adjust for  $3000 \pm 7\text{Hz}$ .

#### 2.High speed adjustment (DECK1,DECK2)

Settings:·Test tape:TTA-100

·Test point:PB-OUT (CON951)

·Adjustment location:SFR1

Method: After normal speed adjustment, play back the test tape, and make the high speed condition to be shorted between TP3 and TP4. Adjust for  $6000 \pm 10\text{Hz}$ .

#### 3.Head azimuth adjustment (DECK1,DECK2)

Settings:·Test tape:TTA-310

·Test point:PB-OUT (CON951)

·Adjustment location: Head azimuth  
adjustment screw

Method: Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum in each FWD PLAY and REV PLAY mode.

#### 4.PB level adjustment (DECK1,DECK2)

Settings:·test tape:TTA-200

·Test point:PB-OUT (CON951)

·Adjustment location:SFR101 (DECK1, Lch)

SFR102 (DECK1, Rch)

SFR201 (DECK2, Lch)

SFR202 (DECK2, Rch)

Method: Play back the test tape and adjust so that the output becomes  $280\text{mV} \pm 15\text{mV}$ .

#### 5.FWD/REV play back output difference check

(DECK1, DECK2)

Settings:·Test tape:TTA-200

·Test point:PB-OUT (CON951)

Method: Play back the test tape and make sure that the output difference between the FWD and REV modes is  $0\text{dB} \pm 0.7\text{dB}$ .

#### 6.Bias frequency adjustment (DECK2)

Settings:·Test tape:TTA-602

·Test point:TP1

·Adjustment location:L401

Method: Set DECK2 to the record mode and adjust L401 so that the frequency at TP1 is  $107.5\text{kHz} \pm 1.5\text{kHz}$ .

#### 7.REC/PB frequency response adjustment (DECK2)

Settings:·Test tape:TTA-602

·Test point:PB-OUT (CON951)

·Adjustment location:SFR401 (Lch)  
SFR402 (Rch)

Method: Connect TP2(LMT TP) to ground(chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is  $25\text{mV}$ .  
Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz is  $+0.5\text{dB} \pm 0.3\text{dB}$  for 1kHz signal.  
After adjustment, remove the grounding lead wire.

#### 8.REC/PB sensitivity adjustment (DECK2)

Settings:·Test tape:TTA-602

·Test point:PB-OUT (CON951)

·Adjustment location:SFR301 (Lch)  
SFR302 (Rch)

Method: Connect TP2(LMT TP) to ground(chassis), apply a 1kHz signal and adjust attenuator so that the level at the output level of is  $0\text{dB} \pm 0.3\text{dB}$ .  
After adjustment, remove the grounding lead wire.

#### PRACTICAL SERVICE FIGURE

PB output level:  $280\text{mV} \pm 34\text{mV}$  (TTA-200)

REC/PB output level:  $250\text{mV} \pm 1\text{dB}$  (PB-OUT, 1kHz)

Distortion(REC/PB): Less than 1.5%(NORM)

Less than 2.0%(CrO2, MT)

Erasing ratio: More than 60dB

Crosstalk: More than 60dB

Channel separation: More than 35dB

Noise(REC/PB): Less than 2.0mV

(DOLBY OFF NORM)

Less than 1.0mV

(DOLBY B ON MT)

Less than 0.8mV

(DOLBY C ON CrO2, MT)

Less than 1.8mV

(DOLBY OFF NORM)

Less than 0.9mV

(DOLBY B ON CrO2)

Less than 0.8mV

(DOLBY C ON CrO2)

Recording bias frequency: 108kHz

Tape speed:  $3000\text{Hz} \pm 1.5\%$

Wow & flutter(W.RMS): Less than 0.18%(DECK1,2)

Take-up torque:  $30 \sim 55\text{g-cm}$ (DECK1,2)

F.F & REW torque:  $75 \sim 180\text{g-cm}$ (DECK1,2)

Back tension:  $2 \sim 7\text{g-cm}$ (DECK1,2)

Test tape: NORMAL:TTA-602

CrO2:TTA-610

METAL:TTA-630

# IC, DESCRIPTION (FX-WZ9300)

## IC, LC66406-4B19

Pin No.	Pin Name	I/O	Description			
			KEY DATA input			
			When K · SCAN 1 is "H"	When K · SCAN 2 is "H"	When K · SCAN 3 is "H"	When K · SCAN 4 is "H"
1	DATA1	I	DECK 2 REC A SW input	DECK 2 REC B SW input	DECK 2 STOP SW input	SW CD HIGH SPEED(ON/OFF)
42	DATA2	I	DECK 1 CST SW input	DECK 2 CST SW input	DECK 2 STOP SW input	SW CAL (Calibration ON/OFF)
41	DATA3	I	SW · POWER input	SW · DOLBY C (ON/OFF)	DECK 1/2 SW input	
2	O·K·SCAN1	O	SCAN output terminal of DATA 1~3.			
3	O·K·SCAN2	O				
4	O·K·SCAN3	O				
5	I·REMOTE	I	Serial data input terminal of controller.			
6	O·LMT	O	Output terminal for record/playback monitor output signal muting. "H" at muting.			
7	O·POWER	O	POWER ON/OFF control.			
8	O·BIAS	O	Bias oscillation output terminal for DECK 2. "H" at recording/dubbing. "L" at resetting.			
9	O· $\overline{\text{STB}}$ ( $\overline{\text{CS}}$ )	O	Strobe signal for the shift register (IC,BU4094).			
10	O·DATA(SO)/ K·SCAN4	O	Serial data for the shift register PLL IC.			
11	O·CLK	O	Serial data clock signal for the shift register PLL IC.			
12	O·PB2	O	Playback output control terminal for DECKS 1 and 2. "H" at playback with DECK 2.			
13	I·AUTO1	I	Reel pulse input terminal for DECK 1.			
14	I·AUTO2	I	Reel pulse input terminal for DECK 2.			
15	I·MS	I	MS signal input terminal. Active "H".			
16	NC	—	Not used.			
17	O·PLAY	O	Cue/review mute output and MS sensitivity switching output terminal. "H" at playback.			
18	O· $\overline{\text{RMT}}$	O	Muting output terminal for recording input. "H" at record mute, record start, record clear and record pause.			
19	TEST	—	MPU test terminal. Connected with Vss.			
20	VSS	—	Common terminal for MPU I/O and power supply.			
21~22	OSC1~OSC2	—	3.9MHz Oscillation terminal.			
23	$\overline{\text{RESET}}$	I	Reset input terminal. Active "L".			
24	O· $\overline{\text{MOTOR}}$	O	Main motor control output terminal for DECKS 1 and 2. "L" with both DECKS at STOP.			
25	O· $\overline{\text{SOL2}}$	O	Solenoid drive output terminal for DECK2. Active "L".			
26	O· $\overline{\text{SOL1}}$	O	Solenoid drive output terminal for DECK1. Active "L".			
27	O·INT REC	O	Recording input source switching output terminal for DECK 2. "H":DECK 1 at STOP, FF or REW (with DECK NOR, DECK HI, CD NOR, DECK 2 REC). "L":In other modes:DECK 2 at REC, etc.(with CD HI, DECK 2 PLAY/STOP, DECK 1 PLAY).			
28	I/O· $\overline{\text{SERIAL}}$	I/O	Input/output terminal for serial data with CD, AMPLIFIER and TUNER.			
29	NC	—	Not used.			
30	O·DOLBY ON	O	DOLBY NR ON/OFF switching output terminal. "H" at DOLBY NR ON.			

Pin No.	Pin Name	I/O	Description
31	O-REC	O	DOLBY encoder/decoder switching output terminal. "H" at recording and "L" at dubbing.
32	O-HSP	O	High-speed control output terminal for DECKS 1 and 2. "H" at HIGH SPEED DUBBING.
33~37	NC	—	Not used.
38~39	I-AD2-IAD1	I	Key function control input terminal.
40	VDD	—	Power terminal(+5V).

# IC, CXP2201AS

Pin No.	Pin Name	I/O	Description
1	EXT	I	Ceramic connector for system clock oscillator use. When using an external clock, input to EXT, and leave XT open.
2	$\overline{\text{XT}}$	O	Ceramic connector for system clock oscillator use. When using an external clock, input to EXT, and leave XT open.
3	VSS	—	Connect Vss.
4~7	NC	—	Not used.
8	VDD	—	Connect VDD.
9~15	P1~P7	O	Exclusive segment output (with built-in pull-down resistor.).
16~25	NC	—	Not used.
26~32	G7~G1	O	Exclusive timing output (with built-in pull-down resistor).
33	VFDP	—	Load power supply for FDP.
34~38	NC	—	Not used.
39	SI	I	Serial data input.
40	CLK	I	Shift clock input.
41	$\overline{\text{CS}}$	I	Chip select input.
42	$\overline{\text{RST}}$	I/O	Reset (with built-in pull-up resistor and power-on reset circuit).

This exploded view diagram illustrates the assembly of a chassis. The components are numbered 1 through 29, with letters A through H indicating specific assembly points or features. The diagram shows the following parts and their assembly sequence:

- 1**: Base plate or chassis frame.
- 2**: Front panel or cover.
- 3**: Mounting bracket or support.
- 4**: Screws or fasteners.
- 5**: Mounting bracket or support.
- 6**: Screws or fasteners.
- 7**: Mounting bracket or support.
- 8**: Screws or fasteners.
- 9**: Mounting bracket or support.
- 10**: Mounting bracket or support.
- 11**: Mounting bracket or support.
- 12**: Screws or fasteners.
- 13**: Mounting bracket or support.
- 14**: Mounting bracket or support.
- 15**: Mounting bracket or support.
- 16**: Mounting bracket or support.
- 17**: Mounting bracket or support.
- 18**: Mounting bracket or support.
- 19**: Mounting bracket or support.
- 20**: Mounting bracket or support.
- 21**: Mounting bracket or support.
- 22**: Mounting bracket or support.
- 23**: Mounting bracket or support.
- 24**: Mounting bracket or support.
- 25**: Mounting bracket or support.
- 26**: Mounting bracket or support.
- 27**: Mounting bracket or support.
- 28**: Mounting bracket or support.
- 29**: Mounting bracket or support.

The diagram also includes labels for various components and their assembly points:

- CHASSIS ANP**: Chassis Assembly Note.
- HLDR PCB 6.0**: Holder PCB 6.0.
- MAIN C.B**: Main Control Board.
- PLATE SHLD PT1**: Plate Shield PT1.
- PLATE SHLD MECHA**: Plate Shield Mechanism.
- SH. SHLD**: Shield.
- FRONT-1 C.B**: Front-1 Control Board.
- FRONT-2 C.B**: Front-2 Control Board.
- PLATE, EARTH MECHA**: Plate, Earth Mechanism.

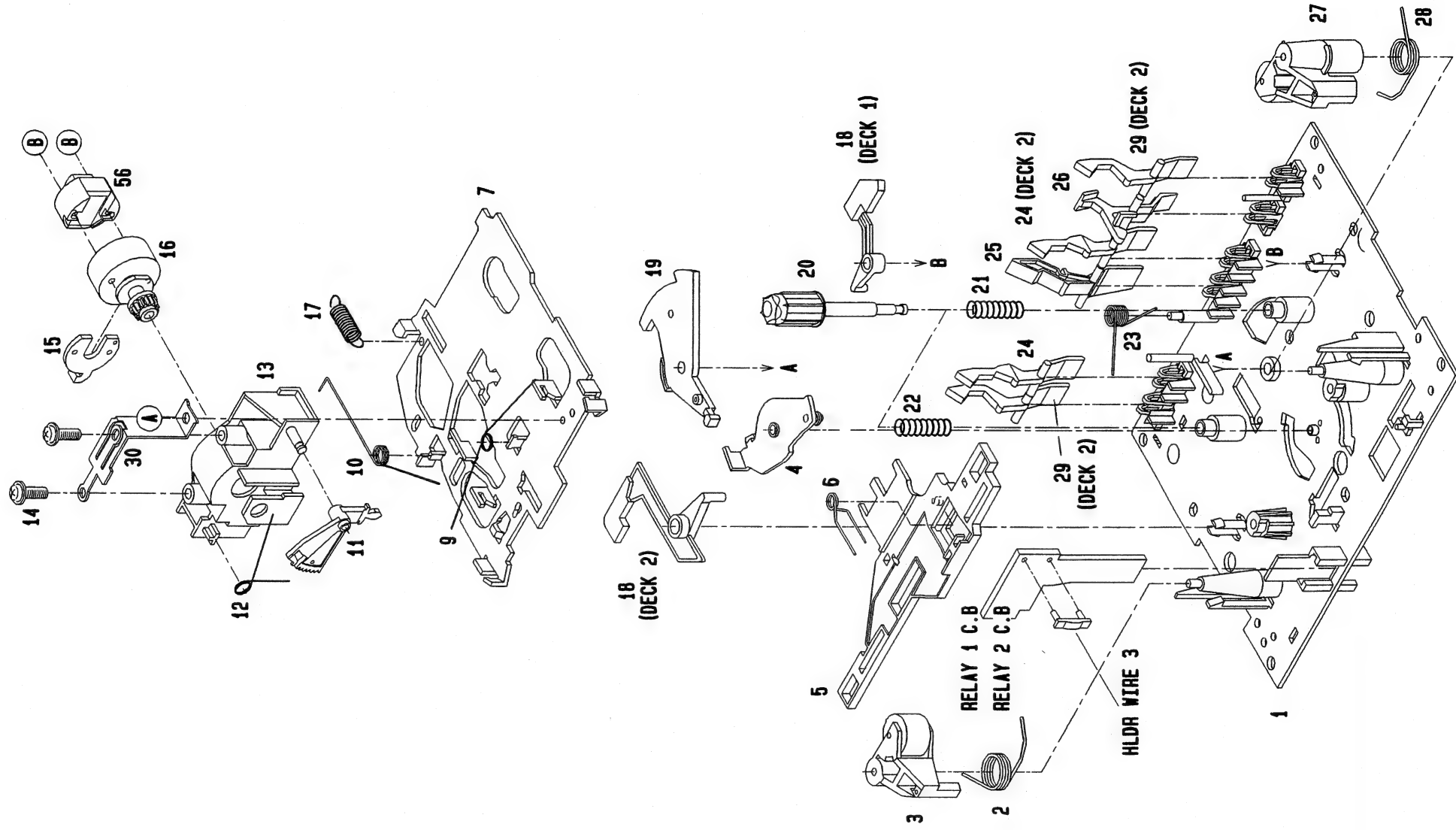


# MECHANICAL PARTS LIST 1/1 (FX-WZ9300)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	82-NE8-032-019		BADGE A1WA 27.5	21	82-NF5-229-019		PLATE, LOCK
2	85-VW1-002-019		BOX, CASS 1	22	82-NF5-228-019		SPR-C, LOCK
3	85-VW1-003-019		BOX, CASS 2	23	81-VW1-017-119		CAB, STEEL
4	80-CD3-218-110		SPR-P CASS	24	80-MK2-206-010		DMPR 27-44, 5-3
5	85-VW1-008-019		WINDOW, BOX 1	25	81-VX1-012-019		FOOT, REAR
6	85-VW1-009-019		WINDOW, BOX 2	26	85-VW1-010-019		PANEL, REAR YBN(Y)
7	85-VW1-007-019		WINDOW, DISPLAY	26	85-VW1-011-019		PANEL, REAR YJBN(YJ)
8	82-NF5-219-019		SPR-T, EJECT 2 (SIN)	27	89-VT5-202-010		BUSHING CORD
9	82-NF5-218-019		SRT-T, EJECT 1 (SIN)	28	82-VW2-823-019		CORD, FG 9P 750
10	85-VW1-001-019		CAB, FR	29	82-VW1-201-019		GUIDE, FL
11	84-VW5-013-010		RING, FOOT	A	87-721-095-419		QT2+3-8GLD W/O SLOT
12	82-VW2-211-019		FELT, 20-7, 5-2	B	87-067-776-019		BVT2+3-12W, CONVEX
13	87-070-108-019		LED SLF301C-37	C	87-067-584-019		BVT2+3-6 W/O SLOT
14	87-063-165-019		OIL-DMPR 150	D	87-067-703-019		BVT2+3-10 (W/O SLOT)
15	85-VW1-004-019		KEY, PLAY 1	E	87-067-178-019		VTT+2, 6-3
16	85-VW1-006-019		KEY, DJBB	F	87-067-660-019		BVT2+3-8W/O SLOT 8LK
17	85-VW1-005-019		KEY, REC.	G	87-743-094-419		UT 2+3-6 W/O SLOT BLK
18	85-VW1-012-019		KEY, PLAY 2	H	87-067-130-010		FW3-8-1
19	82-NF5-227-019		HLDR, LOCK 2N				
20	82-NF5-226-019		HLDR, LOCK 1N				

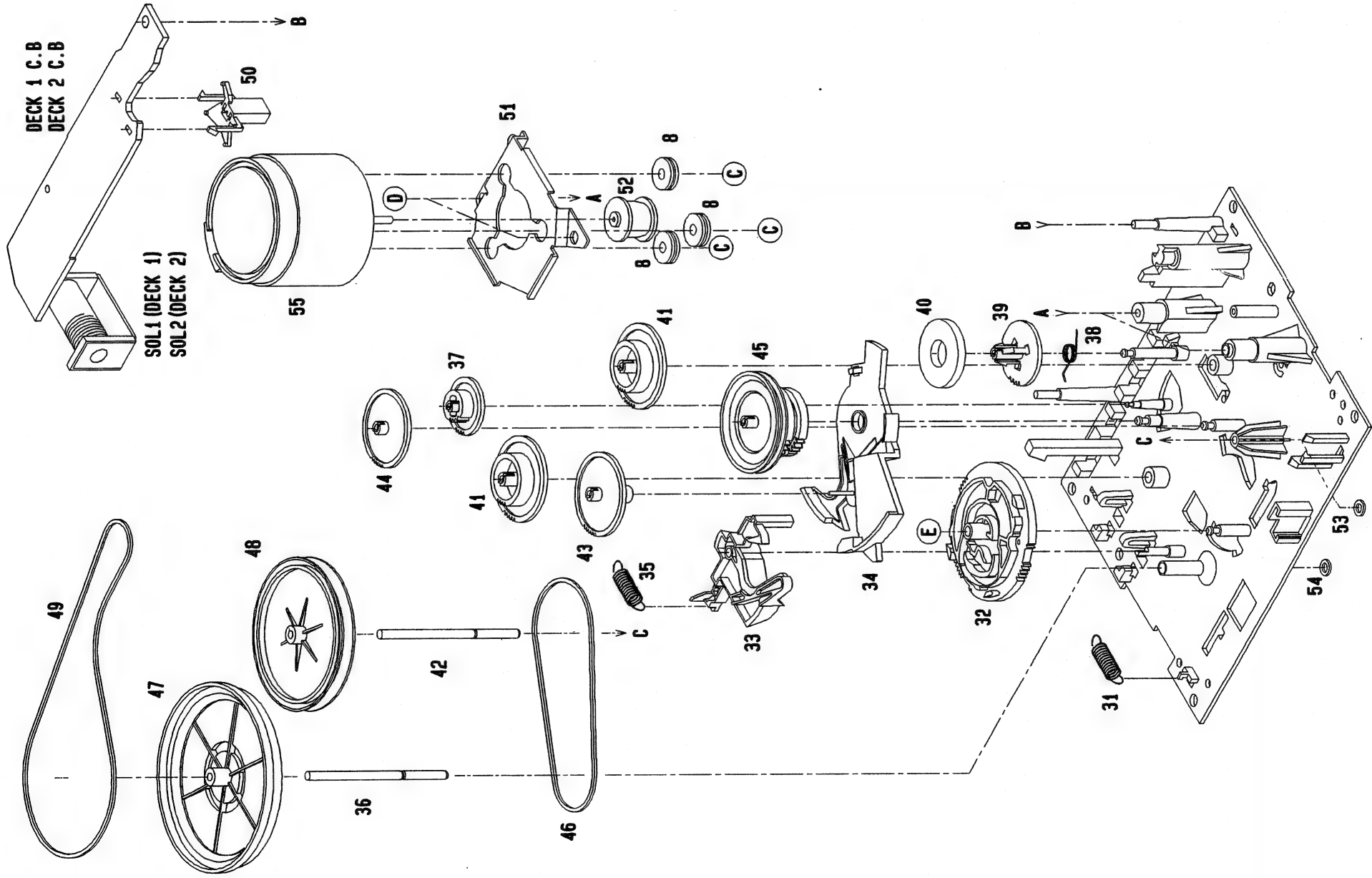
# TAPE MECHANISM EXPLODED VIEW 1/1 (FX-WZ9300)



TAPE MECHANISM PARTS LIST 1/1 (FX-WZ9300)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	呼び NO.	DESCRIPTION	REF. NO	PART NO.	呼び NO.	DESCRIPTION
1	82-ZM1-299-010		CHAS ASSY, R	35	82-ZM1-305-010		SPR-E, TRIG 2
2	82-ZM1-258-010		SPR-T, PINCH L	36	82-ZM1-312-010		CAPSTAN, N 2-2-41. 7
3	82-ZM1-248-110		LVR ASSY, PINCH L	37	82-ZM1-223-010		GEAR, PLAY
4	82-ZM1-295-210		PLATE ASSY, LINK	38	82-ZM1-258-110		SPR-T, FR
5	82-ZM1-266-010		LVR, DIR	39	82-ZM1-220-110		GEAR, IDLER
6	82-ZM1-214-010		SPR-T, DIR	40	82-ZM1-316-010		RING MAGNET 3
7	82-ZM1-206-210		CHAS, HEAD	41	82-ZM1-218-210		GEAR, REEL
8	82-ZM1-308-019		CUSH-G, DIA 3. 7-9-3. 2	42	82-ZM1-313-010		CAPSTAN, N 2-41. 5
9	82-ZM1-269-010		SPR-T, BRG	43	82-ZM1-225-010		GEAR, FR
10	82-ZM1-219-010		SPR-T, LINK	44	82-ZM1-226-010		GEAR, REW
11	82-ZM1-210-010		GEAR, H T	45	82-ZM1-228-210		SLIP DISK ASSY
12	82-ZM1-213-010		SPR-T, HEAD	46	82-ZM1-328-010		BELT, FRZ
13	82-ZM1-207-010		GUIDE TAPE	47	82-ZM1-238-51K		FLY-WHL R
14	82-ZM1-283-310		S-SCREW, AZIMUTH	48	82-ZM1-235-21K		FLY-WHL L
15	82-ZM1-314-110		PLATE, HEAD	49	82-ZM1-260-010		BELT, MAIN
16	82-ZM1-208-010		HLDR, HEAD	50	82-ZM1-245-210		HLDR, IC
17	82-ZM1-218-010		SPR-E, HB	51	82-ZM1-307-010		HLDR MOTOR B
18	82-ZM1-263-110		LVR, EJECT (DECK 2) (R1)	52	82-ZM1-247-010		PULLEY, MOTOR
19	82-ZM1-264-010		LVR, EJECT R (DECK 1) (P1)	53	82-ZM1-288-010		SH, 1. 63-3. 2-0. 5 SLT
20	82-ZM1-222-010		LVR, PLAY	54	80-ZM6-243-010		SH, 1. 75-3. 6-0. 5 SLT
21	82-ZM1-217-110		REEL, TABLE	55	87-045-348-010		MOT, SHW 2L 70 (M1)
22	82-ZM1-244-110		SPR-C, BT	56	87-046-355-010		HEAD, PH HADKH25298 (PH) (P1)
23	82-ZM1-285-110		SPR-C, BT L	56	87-046-356-010		HEAD, RPH HADKH5818 (RPH) (R1)
24	82-ZM1-257-010		SPR-T, CAS	A	82-ZM1-315-010		S-SCREW, GUIDE TAPE
25	82-ZM1-241-110		LVR, MC	B	80-ZM6-207-010		V+1. 6-7
26	82-ZM1-242-010		LVR, CAS	C	82-ZM1-309-010		S-SCREW, MOTOR
27	82-ZM1-243-010		LVR, STOP	D	87-741-073-410		UT2+2. 6-6 GLD
28	82-ZM1-253-110		LVR ASSY, PINCH R	E	87-067-932-010		PM, 2. 15-6. 8-0. 5 SLT
29	82-ZM1-259-010		SPR-T, PINCH R				
30	82-ZM1-240-110		LVR, REC (DECK 2) (R1)				
31	82-ZM1-298-010		SPR-P, EARTH				
32	82-ZM1-255-110		SPR-E, LVR DIR				
33	82-ZM1-221-110		GEAR, CAM				
34	82-ZM1-227-110		LVR, TRIG				
	82-ZM1-224-110		LVR, FR				



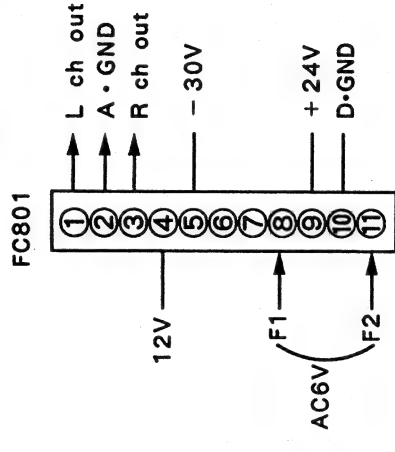
# TX - Z9300

## CAUTIONS WHEN SERVICING (TX - Z9300)

Model TX - Z9300 does not have a power supply circuit. Power is supplied to it through a 11 - pin flat cable and the signal inputs/outputs are also performed through this cable.  
When servicing the TX - Z9300 connect it to the MX - Z9300M so that power is supplied to the TX - Z9300. If the MX - Z9300M is not available, follow the procedure below.

[When servicing the unassembled TX - Z9300]

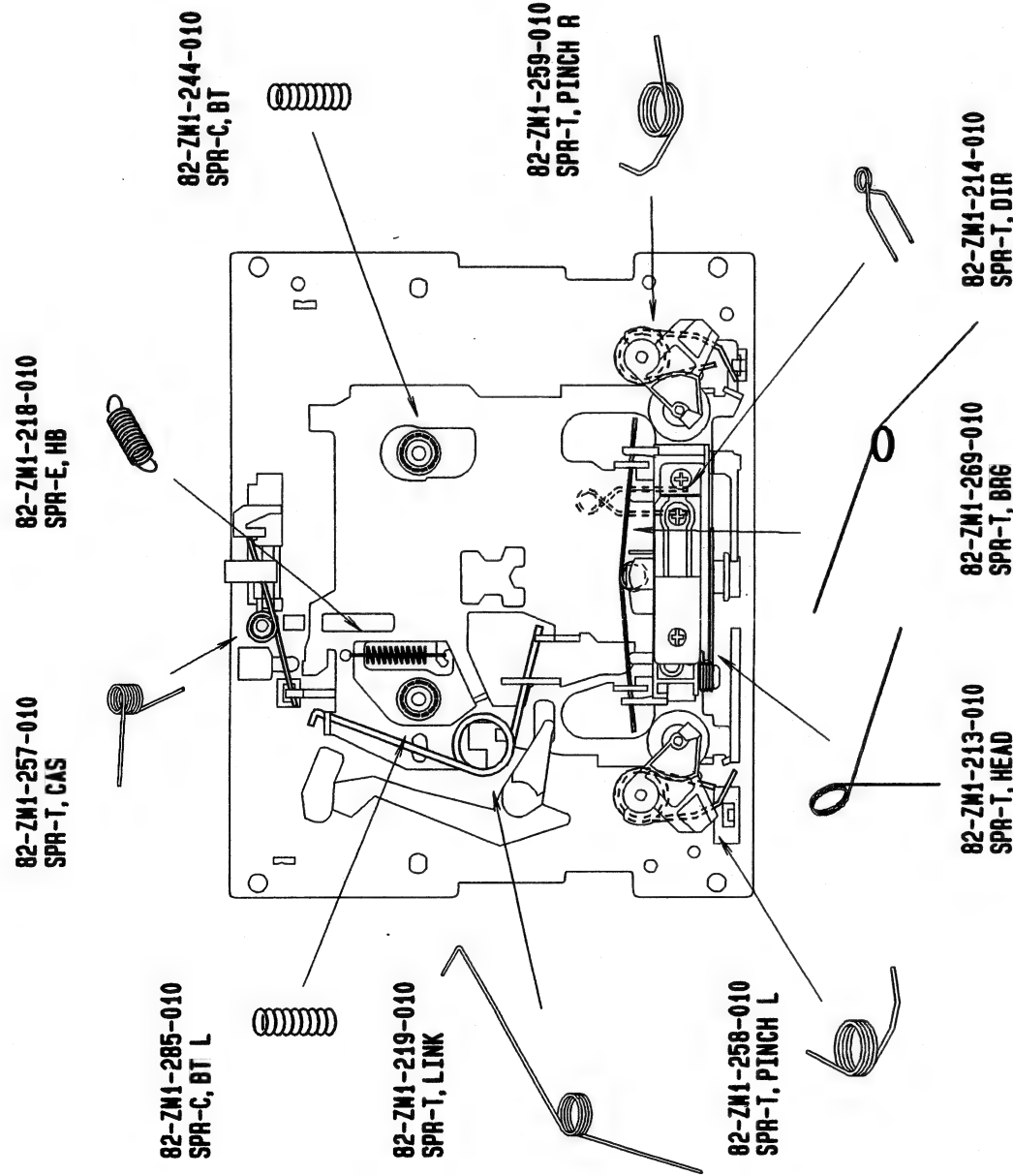
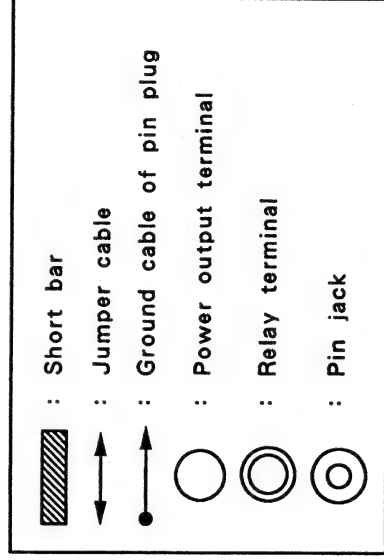
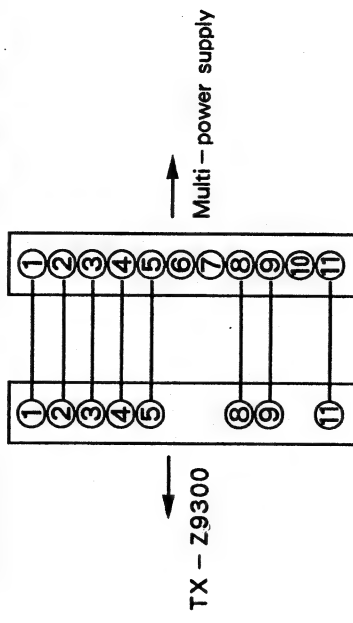
① Supply the following voltages to each terminal from an external power supply.



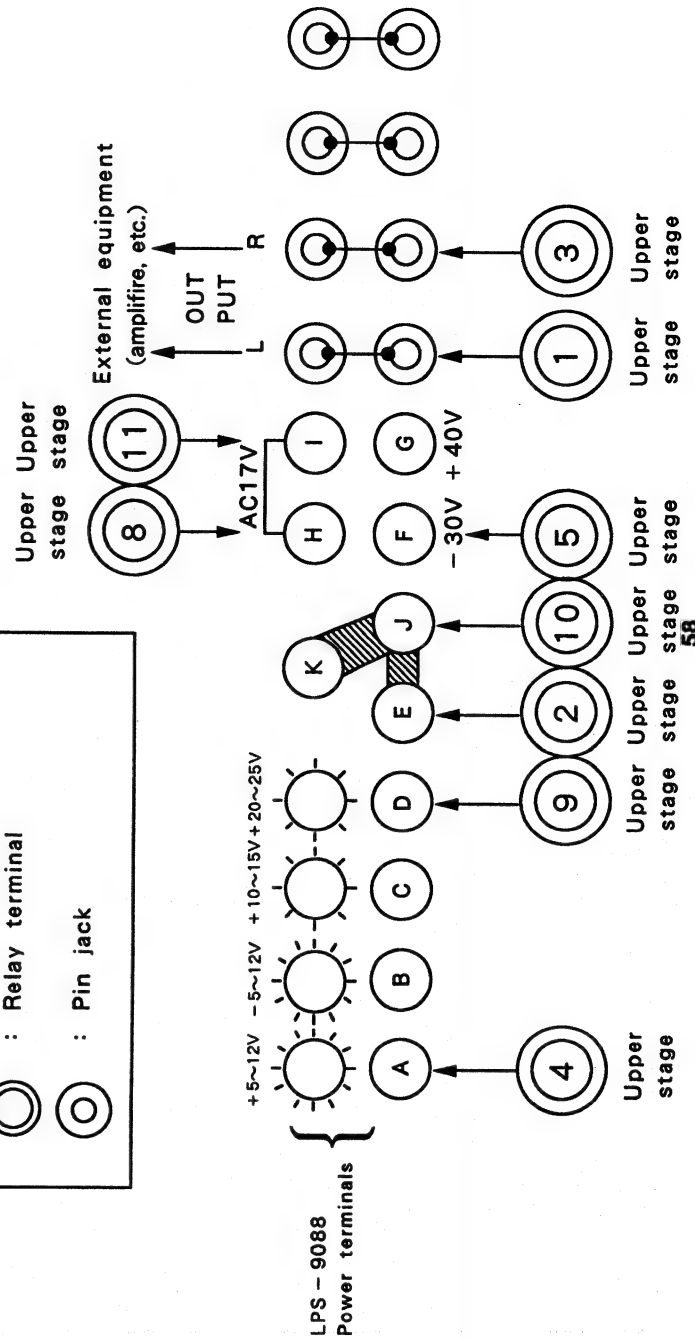
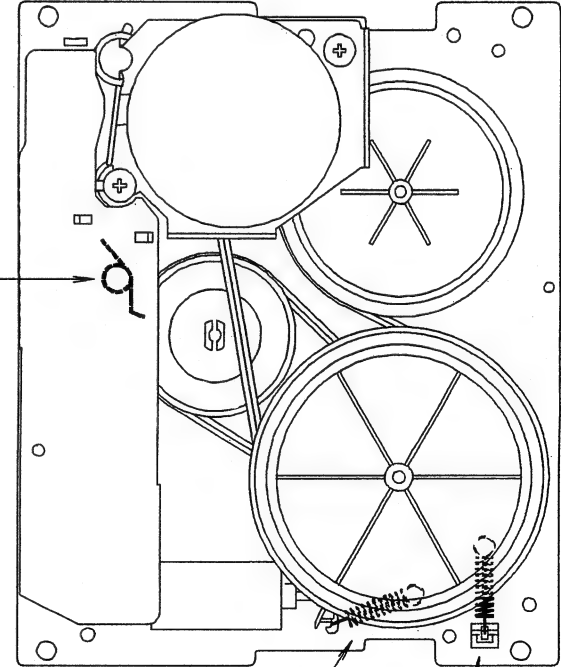
② Connection diagram when using multi power supply (LPS - 9088).

- Turn the TX - Z9300 on using the SLEEP function since the POWER SW is not supplied.
- Connect the multi - conversion harness for the X5 type (modified harness for F550) to J1.

Connection diagram of multi - conversion harness



82-ZM1-256-010  
SPR-T, FR



## ELECTRICAL MAIN PARTS LIST (TX-Z9300)

DESCRIPTIONで判断できない物は“REFERENME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	かじ NO.	DESCRIPTION	REF. NO	PART NO.	かじ NO.	DESCRIPTION
IC	87-001-942-019		IC, LA1265S(G)	C39	87-010-544-089		CAP, E 0.1-50
	87-020-446-019		IC, FR7343AP	C40	87-010-403-089		CAP, E 3.3-50 SME
	87-001-376-019		IC, LC7218	C41	87-010-404-089		CAP, E 4.7-50 SME
	81-VT1-605-019		IC, UPD75268CW-066	C42	87-010-404-089		CAP, E 4.7-50 SME
				C43	87-010-197-089		C-CAP, S 0.01-25 B
TRANSISTOR	89-503-025-089		C-FET, 2SK302 GR	C45	87-010-404-089		CAP, E 4.7-50 SME
	89-327-143-089		C-TR, 2SC2714 (O)	C46	87-010-197-089		C-CAP, S 0.01-25 B
	89-502-115-089		C-FET, 2SK211GR	C47	87-010-197-089		C-CAP, S 0.01-25 B
	89-327-125-089		C-TR, 2SC2712GR	C48	87-010-197-089		C-CAP, S 0.01-25 B
	87-026-230-089		C-TR, DTA114YK	C49	87-010-197-089		C-CAP, S 0.01-25 B
	89-316-235-089		C-TR, 2SC1623 L5	C50	87-010-197-089		C-CAP, S 0.01-25 B
	89-333-266-089		C-TR, 2SC3326B	C51	87-010-197-089		C-CAP, S 0.01-25 B
	89-502-094-089		C-FET, 2SK209Y	C52	87-010-197-089		C-CAP, S 0.01-25 B
	87-026-214-089		TR, DTA114YS	C53	87-010-196-089		C-CAP, S 0.1-25 F
	89-320-011-089		TR, 2SC2001K	C54	87-010-197-089		C-CAP, S 0.01-25 B
	89-318-155-089		TR, 2SC1815GR	C55	87-014-049-089		CAP, PP 470P-100 J
	89-110-485-089		TR, 2SA1048GR	C56	87-010-158-089		C-CAP, S 22P-50 SL
	89-324-585-089		TR, 2SC2458GR	C57	87-010-169-089		C-CAP, S 180P-50 SL
DIODE	87-026-360-089		C-VARICAP, KV1430	C58	87-014-050-089		CAP, PP 510P-100 J
	87-020-312-089		C-DIODE, 1SS181	C60	87-010-404-089		CAP, E 4.7-50 SME
	81-754-634-090		VARI-CAP, KV1260	C61	87-010-401-089		CAP, E 1-50 SME
	87-020-027-089		C-DIODE, 1SS184	C62	87-010-403-089		CAP, E 3.3-50 SME
	87-020-583-089		C-ZENER, 02CZ5.1Y	C63	87-014-057-089		CAP, PP 1000P-100 J
	87-020-585-089		C-ZENER, 02CZ6.2Y	C64	87-010-405-089		CAP, E 10-50 SME
	87-020-110-089		DIODE, 1SS177	C67	87-010-220-089		C-CAP, S 0.018-25 B
	87-027-449-089		ZENER, HZ15-3L	C68	87-010-220-089		C-CAP, S 0.018-25 B
	87-017-172-089		ZENER, HZS11A1L	C69	87-010-404-089		CAP, E 4.7-50 SME
				C70	87-010-404-089		CAP, E 4.7-50 SME
MAIN C.B	81-653-648-010		ANT TERM EARTH PAL	C73	87-010-404-089		CAP, E 4.7-50 SME
	87-010-312-089		C-CAP, S 15P-50 CH	C74	87-010-404-089		CAP, E 4.7-50 SME
	87-010-197-089		C-CAP, S 0.01-25 B	C75	87-010-248-089		CAP, E 220-10 SME
	87-010-197-089		C-CAP, S 0.01-25 B	C76	87-010-312-089		C-CAP, S 15P-50 CH
	87-010-158-089		C-CAP, S 22P-50 SL	C77	87-010-197-089		C-CAP, S 0.01-25 B
	87-010-154-089		C-CAP, S 10P-50 CH	C78	87-010-197-089		C-CAP, S 0.01-25 B
	87-010-312-089		C-CAP, S 15P-50 CH	C79	87-010-197-089		C-CAP, S 0.01-25 B
	87-010-312-089		C-CAP, S 15P-50 CH	C80	87-010-384-089		CAP, E 100-25 SME
	87-010-197-089		C-CAP, S 0.01-25 B	C81	87-010-186-089		C-CAP, S 4700P-50 B
	87-010-147-089		C-CAP, S 3P-50 CH	C82	87-010-400-089		CAP, E 0.47-50 SME
	87-010-158-089		C-CAP, S 22P-50 SL	C83	87-015-762-089		C-CAP, 68P SL
	87-010-148-089		C-CAP, S 2P-50 CH	C84	87-010-164-089		C-CAP, S 68P-50 SL
	87-010-149-089		C-CAP, S 5P-50 CH	C85	87-010-164-089		C-CAP, S 68P-50 SL
	87-010-312-089		C-CAP, S 15P-50 CH	C86	87-018-134-089		CAP, TC-U 0.01-16 Y
	87-010-197-089		C-CAP, S 0.01-25 B	C87	87-010-404-089		CAP, E 4.7-50 SME
	87-010-146-089		C-CAP, S 2P-50 CH	C88	87-010-381-089		CAP, E 330-16 SME
	87-010-148-089		C-CAP, S 4P-50 CH	C89	87-018-134-089		CAP, TC-U 0.01-16 Y
	87-010-149-089		C-CAP, S 5P-50 CH	C100	87-010-197-089		C-CAP, S 0.01-25 B
	87-010-197-089		C-CAP, S 0.01-25 B	C101	87-010-197-089		C-CAP, S 0.01-25 B
	87-010-170-089		C-CAP, S 220P-50 SL	C102	87-010-311-089		C-CAP, S 12P-50 CH
	87-010-197-089		C-CAP, S 0.01-25 B	C103	87-010-311-089		C-CAP, S 12P-50 CH
	87-010-197-089		C-CAP, S 0.01-25 B	C104	87-010-197-089		C-CAP, S 0.01-25 B
	87-010-312-089		C-CAP, S 15P-50 CH	C106	87-010-145-089		C-CAP, S 1P-50 CH
	87-010-197-089		C-CAP, S 0.01-25 B	C110	87-010-263-089		CAP, E 100-10
	87-010-400-089		CAP, E 0.47-50 SME	C111	87-010-405-089		CAP, E 10-50 SME
	87-010-197-089		C-CAP, S 0.01-25 B	C112	87-010-401-089		CAP, E 1-50 SME
	87-010-149-089		C-CAP, S 5P-50 CH	C151	87-010-197-089		C-CAP, S 0.01-25 B
	87-010-312-089		C-CAP, S 15P-50 CH	C152	87-018-134-089		CAP, TC-U 0.01-16 Y
	87-010-197-089		C-CAP, S 0.01-25 B	C153	87-018-134-089		CAP, TC-U 0.01-16 Y
	87-010-401-089		CAP, E 1-50 SME	C154	87-018-209-089		CAP, TC-U 0.1-50 F
	87-010-197-089		C-CAP, S 0.01-25 B	C155	87-018-134-089		CAP, TC-U 0.01-16 Y
	87-010-197-089		C-CAP, S 0.01-25 B	CF1	87-030-105-010		FLTR, BPMB6A
	87-010-405-089		CAP, E 10-50 SME	CF2	82-799-621-019		CF MS2-A
	87-012-157-089		C-CAP, S 330P-50 CH	CF3	87-008-261-019		FLTR, SFE10.7MA5-A
	87-010-197-089		C-CAP, S 0.01-25 B	CF4	87-008-261-019		FLTR, SFE10.7MA5-A
	87-010-401-089		C-CAP, S 0.01-25 B	CF5	82-794-670-019		BFU 450C4N
	87-010-197-089		C-CAP, S 0.01-25 B	J1	81-631-646-010		ANT TERM 2P PAL
	87-010-405-089		CAP, E 10-50 SME	L1	87-006-204-019		COIL, ANT FM 3/4 T
	87-012-157-089		C-CAP, S 330P-50 CH	L2	87-006-210-019		COIL, ANT FM 2 3/4T
	87-010-197-089		C-CAP, S 0.01-25 B	L3	87-006-200-019		COIL, RF FM 3-1/2T, L5
	87-010-401-089		CAP, E 1-50 SME	L4	87-006-201-019		COIL, RF FM3-1/2TS, L5
	87-010-404-089		CAP, E 4.7-50 SME	L5	87-006-201-019		COIL, RF FM3-1/2TS, L5
	87-010-405-089		CAP, E 10-50 SME				

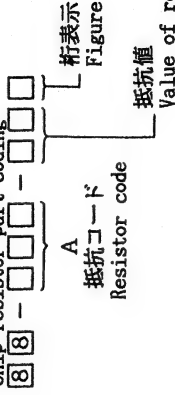


REF. NO	PART NO.	カブリ NO.	DESCRIPTION	REF. NO	PART NO.	カブリ NO.	DESCRIPTION
L6	87-006-205-019		COIL, OSC FM (7K)	L904	87-003-102-089		COIL, 10UH
L7	87-003-231-089		C-COIL, SLUH	PIN901	87-009-605-019		CONN, 8P TNC-B M
L8	87-008-427-019		COIL, FMIFT (4T)	PIN902	87-009-605-019		CONN, 8P TNC-B M
L9	81-631-611-019		COIL, QUAD (SINGLE)	RU901	87-002-669-019		IC, GPIU571X
L11	87-008-452-019		FILTER CP4Z-450	SW901	87-036-215-089		SW, TACT EVQ21404M
L12	87-006-207-019		COIL, ANT MW (3B)	SW902	87-036-215-089		SW, TACT EVQ21404M
L13	87-006-208-019		COIL, ANT LW	SW903	87-036-215-089		SW, TACT EVQ21404M
L14	82-794-687-019		COIL, OSC MW	SW904	87-036-215-089		SW, TACT EVQ21404M
L15	87-008-461-019		COIL, 2 POLE MPX	SW905	87-036-215-089		SW, TACT EVQ21404M
L16	87-008-461-019		COIL, 2 POLE MPX	SW906	87-036-215-089		SW, TACT EVQ21404M
L17	82-794-688-019		COIL, OSC LW	SW907	87-036-215-089		SW, TACT EVQ21404M
L18	87-008-421-019		COIL, FILTER ANTI-BIRDIE	SW908	87-036-215-089		SW, TACT EVQ21404M
L19	87-003-098-089		COIL, 2.2UH	SW909	87-036-215-089		SW, TACT EVQ21404M
L31	87-003-147-089		COIL, 22UH	SW910	87-036-215-089		SW, TACT EVQ21404M
L32	87-005-153-089		COIL, 47UH	SW911	87-036-215-089		SW, TACT EVQ21404M
L33	87-003-098-089		COIL, 2.2UH	SW912	87-036-215-089		SW, TACT EVQ21404M
SFR1	87-024-174-089		SFR, 33K DIA6 V	SW913	87-036-215-089		SW, TACT EVQ21404M
SFR2	87-024-171-089		SFR, 4.7K DIA6 V	SW914	87-036-215-089		SW, TACT EVQ21404M
TC1	87-011-219-089		CAP TRIMMER 10P VCT	SW915	87-036-215-089		SW, TACT EVQ21404M
TC2	87-011-219-089		CAP TRIMMER 10P VCT	SW916	87-036-215-089		SW, TACT EVQ21404M
TC3	87-011-219-089		CAP TRIMMER 10P VCT	SW917	87-036-215-089		SW, TACT EVQ21404M
TC4	87-011-220-089		CAP TRIMMER 20P VCT	SW918	87-036-215-089		SW, TACT EVQ21404M
TC5	87-011-221-089		TRIMER, 30P VCT51				
TC6	87-011-221-089		TRIMER, 30P VCT51				
X1	87-030-163-019		VIB, XTAL 7.2MHZ (NDK)				
FRONT C.B							
C901	87-018-131-089		CAP, TC-U 1000P-50 B	C781	87-010-197-089		C-CAP, S 0.01-25 B
C902	87-010-553-089		CAP, E 47-16	C782	87-018-208-089		CAP, TC-U 0.047-50 F
C903	87-010-498-089		CAP, E 10-16 5L	CON1	87-009-600-019		CONN, 8P TNC-B F
C904	87-010-494-089		CAP ELECT GAS 1/50	CON2	87-009-600-019		CONN, 8P TNC-B F
C905	87-018-131-089		CAP, TC-U 1000P-50 B	FC801	82-VTI-605-019		CORD, FG 11P
C906	87-010-497-089		CAP, E 4.7-50 5L				
C907	87-010-494-089		CAP, E GAS 1/50				
C908	87-010-494-089		CAP, E GAS 1/50				
C909	87-018-134-089		CAP, TC-U 0.01-16 Y				
C910	87-010-252-089		CAP, E (TAPG) 1000-6.3V				
C911	87-018-209-089		CAP, TC-U 0.1-50 F				
C912	87-018-209-089		CAP, TC-U 0.1-50 F				
C913	87-018-209-089		CAP, TC-U 0.1-50 F				
C915	87-010-381-089		CAP, E 330-16 SME				
C916	87-010-381-089		CAP, E 330-16 SME				
CF901	87-008-394-089		CF CST 4.19 MGW				
FL901	85-VTI-605-019		FL, 9BT-83GK				
L901	87-003-102-089		COIL, 10UH				
L902	87-003-102-089		COIL, 10UH				
L903	87-003-102-089		COIL, 10UH				

○チップ抵抗部品コード/CHIP RESISTOR PART CODE

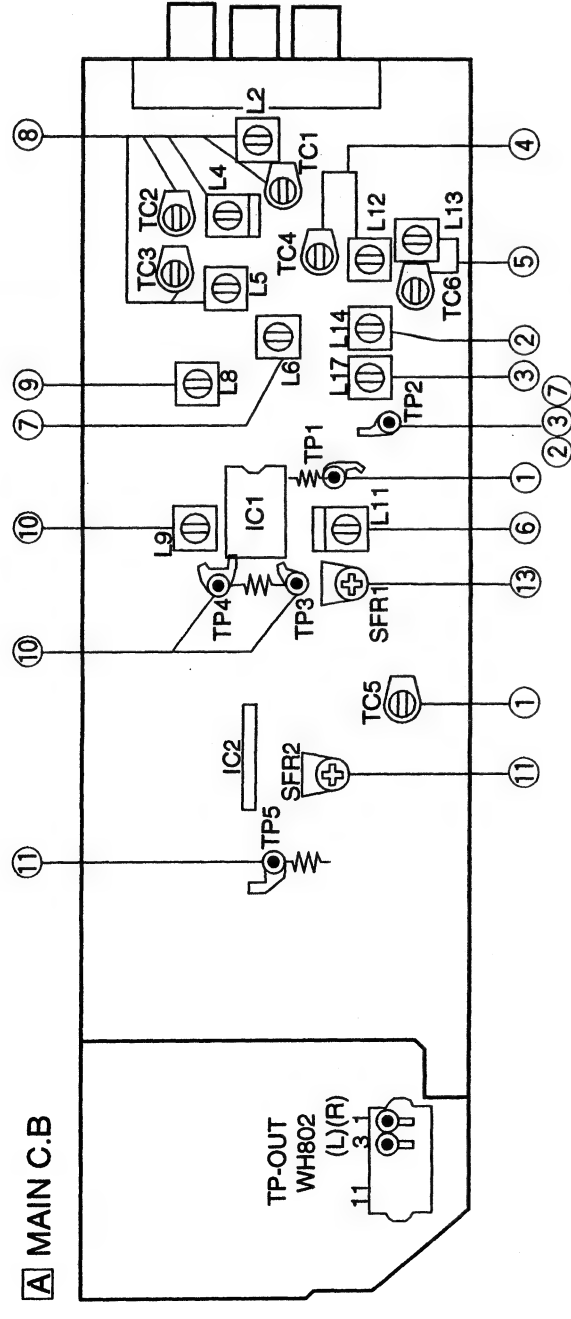
チップ抵抗部品コードの成り立ち

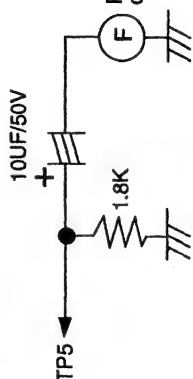
Chip resistor part coding

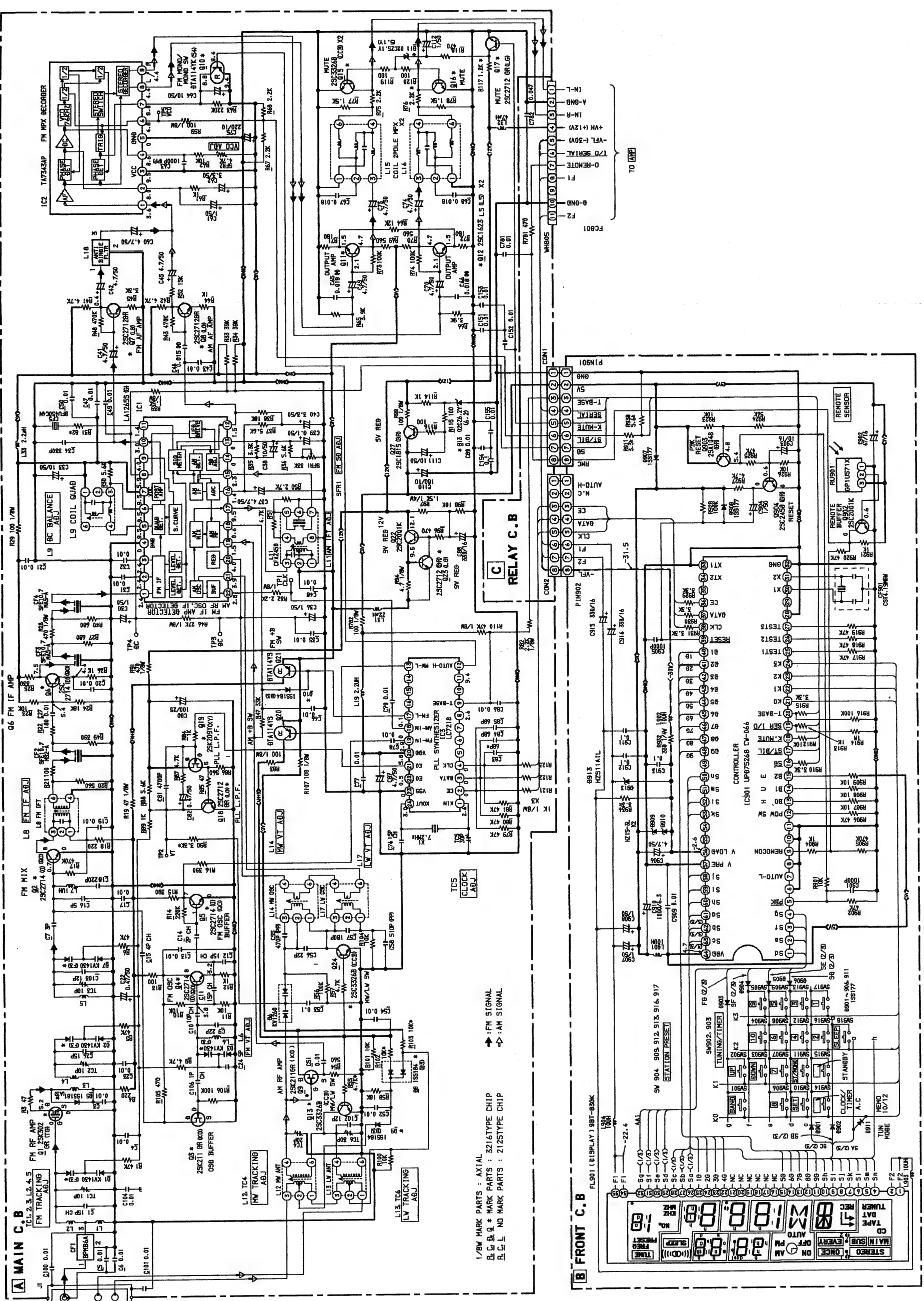


チップ抵抗

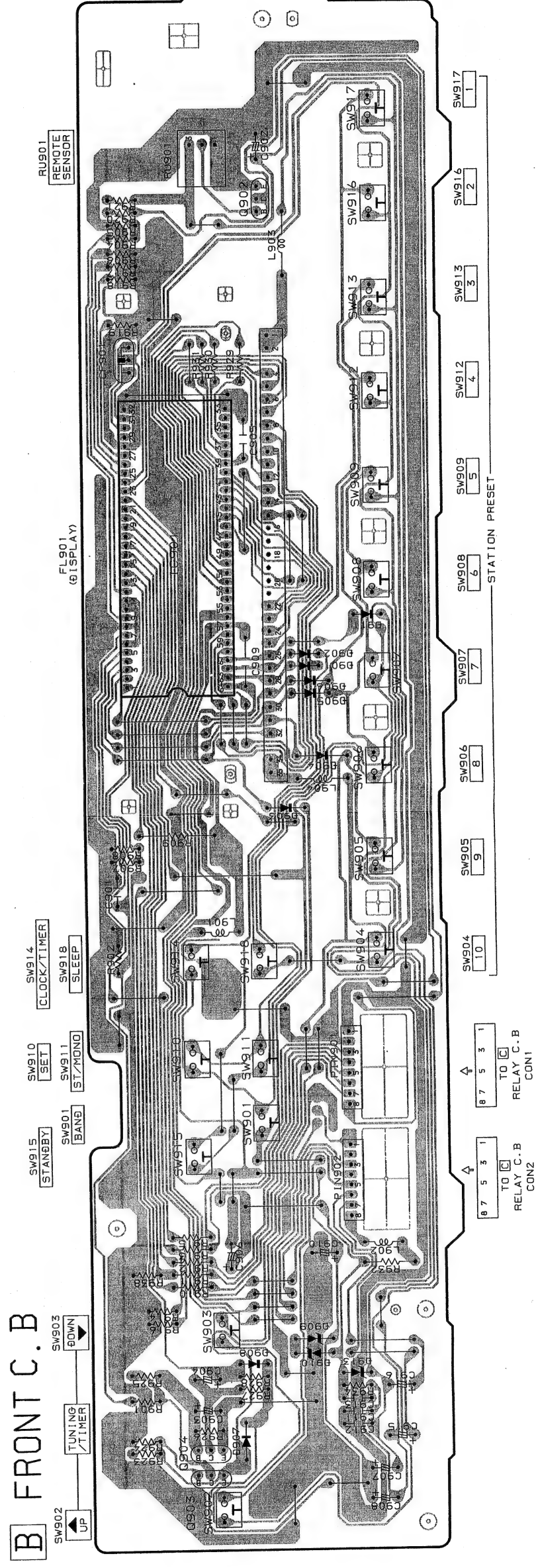
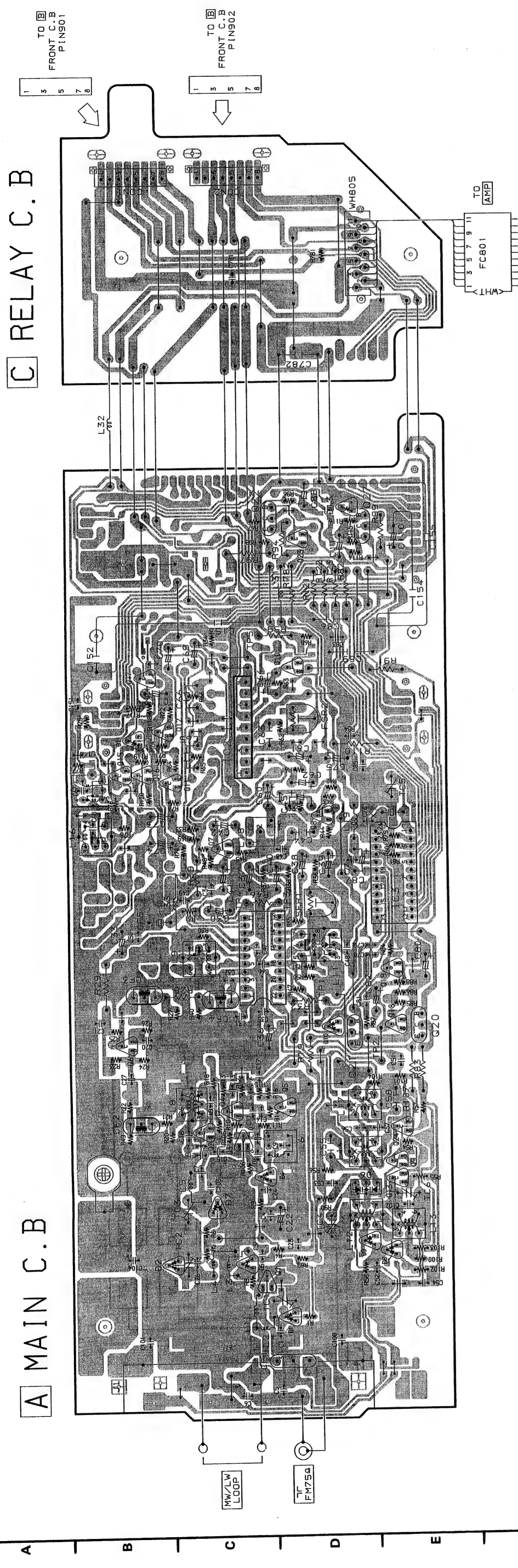
Wattage 容量	Type 種類	Tolerance 許容率	Symbol 記号	Form/外形	Dimensions/寸法 (mm)	Resistor Code : A 抵抗コード : A
1/32W	1608	±5%	CJ		L 1.6 W 0.8 t 0.35	108
1/10W	2125	±5%	CJ		L 2 W 1.25 t 1.45	118
1/8W	3216	±5%	CJ		L 3.2 W 1.6 t 0.5 ~0.7	128



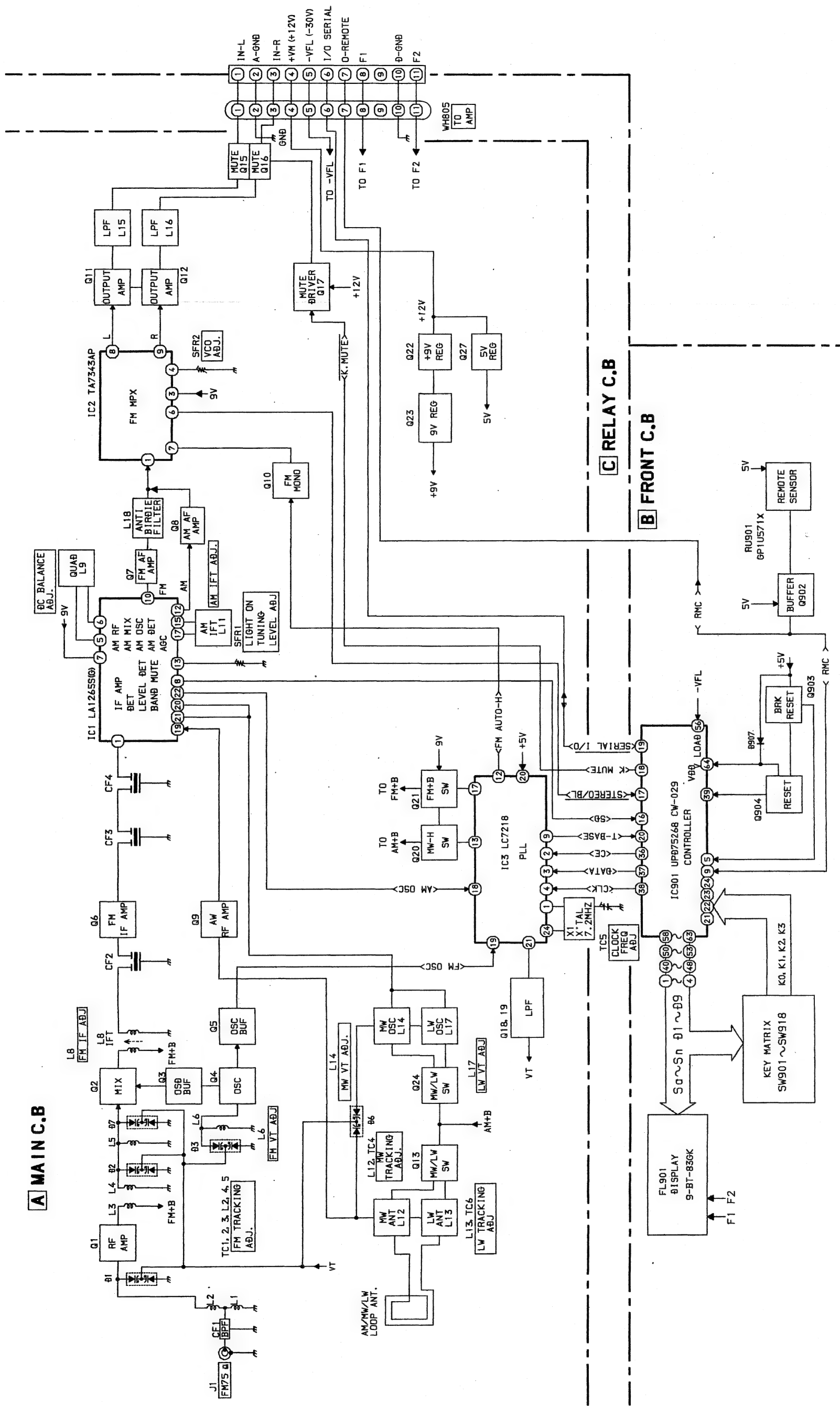
1. Clock Frequency Adjustment  
Settings: • Test point: TP1  
• Adjustment location: TC5  
Method: Set to MW 161kHz and adjust so that the test point becomes 2061kHz  $\pm 0.01$ kHz.
  2. MW VT Adjustment  
Settings: • Test point: TP 2 (VT)  
• Adjustment location: L14  
Method: Set to MW 522kHz and adjust L14 so that the test point becomes 1.0V  $\pm 0.05$ V.
  3. LW VT Adjustment  
Settings: • Test point: TP 2 (VT)  
• Adjustment location: L17  
Method: Set to LW 144kHz and adjust L17 so that the test point becomes 1.2V  $\pm 0.05$ V.
  4. MW Tracking Adjustment  
Settings: • Test point: TP-OUT (WH802)  
L12 . . . . . 603kHz  
TC4 . . . . . 1404kHz
  5. LW Tracking Adjustment  
Settings: • Test point: TP-OUT (WH802)  
L13 . . . . . 144kHz  
TC6 . . . . . 290kHz
  6. MW IF Adjustment  
Settings: • Test point: TP-OUT (WH802)  
L11 . . . . . 450 kHz
  7. FM VT Adjustment  
Settings: • Test point: TP2 (VT)  
• Adjustment location: L6  
Method: Set to FM 108.0MHz and adjust L6 so that the test point becomes 9.0V  $\pm 0.05$ V.
  8. FM Tracking Adjustment  
Settings: • Test point: TP-OUT (WH802)  
TC1,TC2,TC3 . . . . . 108.0MHz  
L2,L4,L4 . . . . . 87.5MHz
  9. FM IF Adjustment  
Settings: • Test point: TP-OUT (WH802)  
L8 . . . . . 98.0MHz
  10. DC Balance Adjustment  
Settings: • Test point: TP3,4 TP-OUT (WH802)(Distortion)  
• Adjustment location: L9  
Method: Set to FM 98.0MHz and adjust L9 so that the test point TP3 and TP4 output becomes 0V  $\pm 0.02$ V.  
Next, check so that the distortion becomes less than 0.6%.
  11. MPX VCO Adjustment  
Settings: • Test point: TP5  
• MODE SW: STEREO  
• Adjustment location: SFR2  
Method: Connect a capacitor and resistor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes 38kHz  $\pm 0.05$ kHz.  

  12. FM Separation Check  
Settings: • Test point: TP-OUT (WH802)  
Method: Set to FM 98.0MHz and check the separation at TP-OUT becomes more than 27dB.
  13. Light on tuning Adjustment  
Settings: • Adjustment location: SFR1  
• Input level: 18dB  
Method: Set to FM 98.0MHz and adjust TUNING LED to light on by SFR1. After that, LED goes out by 20dB down.





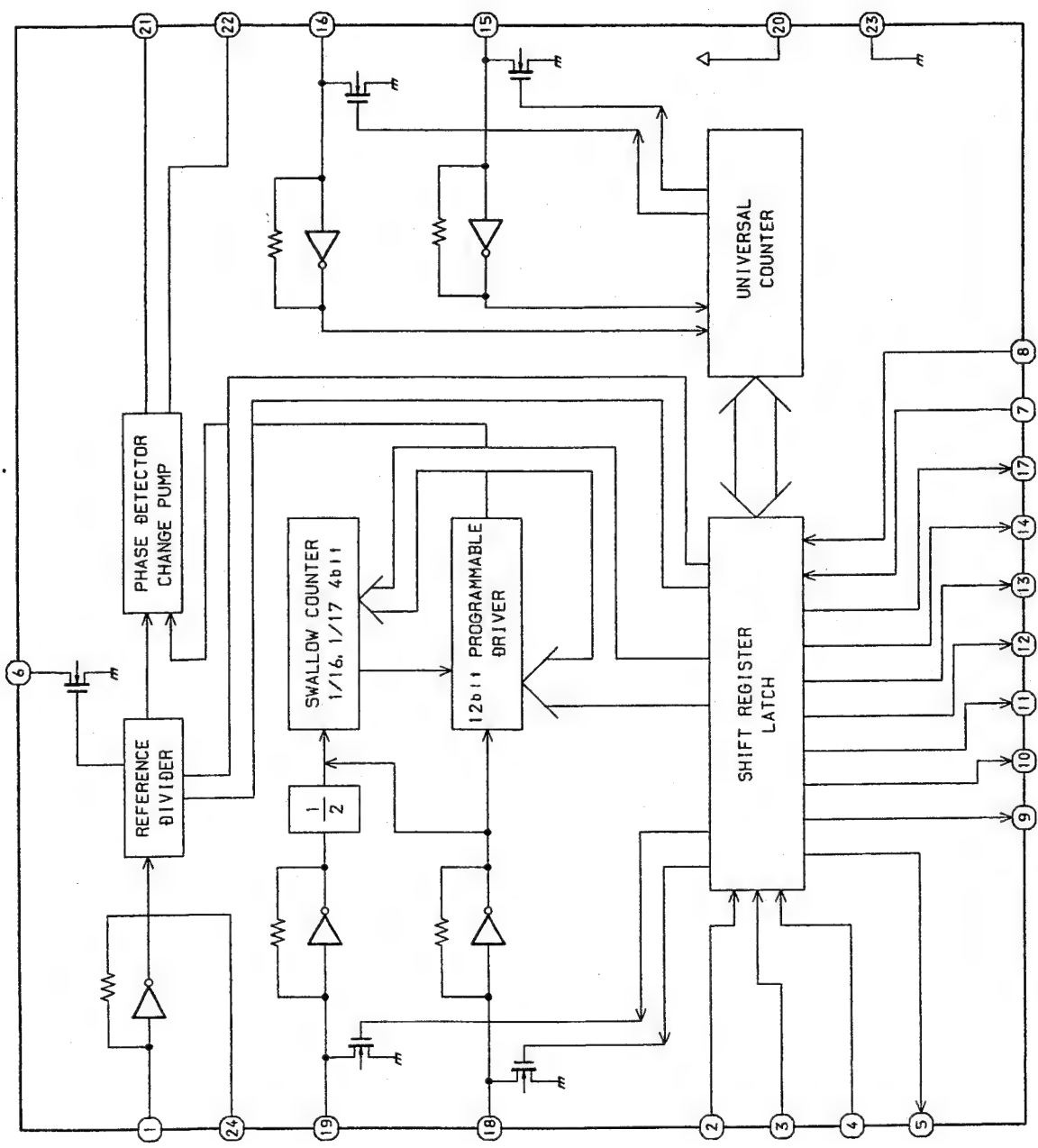






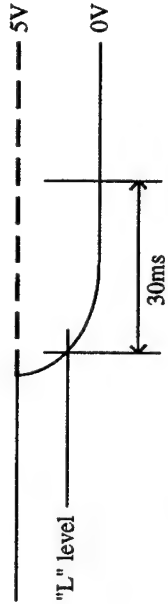
# IC BLOCK DIAGRAM (TX-Z9300)

IC, LC7218



# IC DESCRIPTION (TX-Z9300)

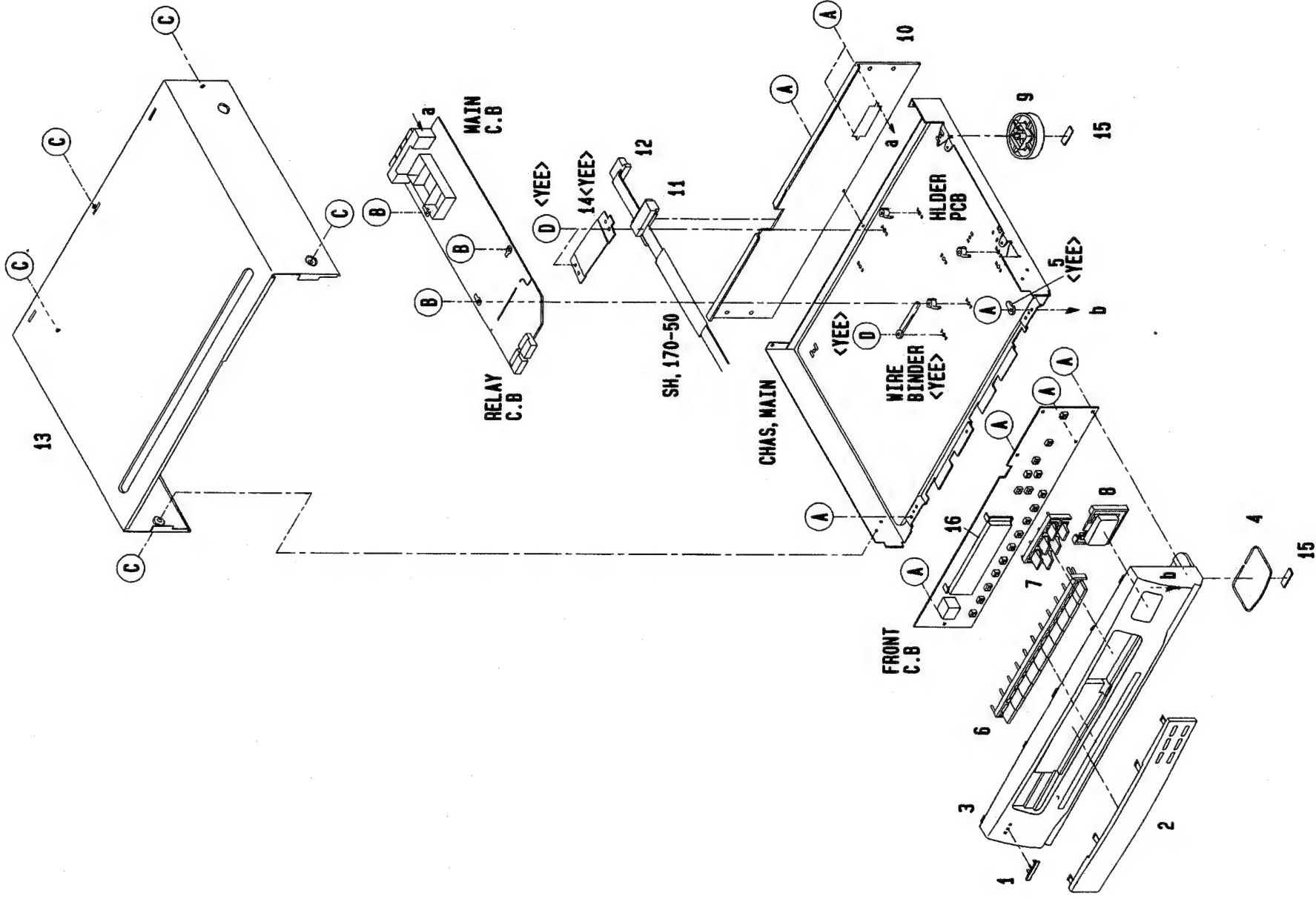
## IC, UPD75268CW-029

Pin No.	Pin Name	I/O	Description
1~4	Sd-Sg	O	FL display segment signal outputs. Key scan signal outputs. Active "H". Power failure detection input. When "L" level continues for 30 ms or more. A power failure is detected. (The unit enters the backup mode.)
5	PBK	I	
6	-	-	Not used. (Connected to GND)
7	AUTO-L	O	When an FM broadcast is received, this pin outputs a signal depending on the AUTO condition selected by the MODE key. Active "L" when the AUTO indicator lights. • Even if the AUTO indicator changes when the frequency is being set during timer programming, the output follows the condition currently received.
8	-	-	Not used. (Connected to GND)
9	REMOKON	I	Serial data input for remote control. Active "H". (The rise is detected)
10~11	-	-	Not used. (Connected to GND)
12	POW SW	I/O	Power control input port. The power is turned on and off alternately each time the power switch of the amplifier is pressed.
13	B0	I	These input pins select the frequency range etc. With the 3 bits depending on the destination of units.
14	B2	I	These input pins select the frequency range etc. With the 3 bits depending on the destination of units.
15	B1	I	These input pins select the frequency range etc. With the 3 bits depending on the destination of units.
16	SD	I	Input to stop auto scanning. Active "L". • The input is not accepted during power off. • The input cause "TUNE" to light. • Search for SD signals every 5 ms during auto scanning. When 4 "L" pulses are counted, scanning will stop. • SD is not detected during manual tuning.
17	STEREO	I	Input which causes the STEREO indicator to light. Active "L". • This input is not accepted during power off.
18	K MUTE	O	Output a muting signal when a key is operated.
19	SER I/O	I/O	8-bit serial data input/output.
20	T-BASE	I	Receives 8Hz pulses from the PLL (LC7218) as a clock signal timing.
21~24	K0~K3	I	Key matrix inputs. (K2 and K3 are not used and connected to GND)
25~27	TEST1~TEST3	I	Test mode setting inputs.
28	AC CLK	I	Receives the commercial power frequency (the AC level is 5V) as a reference signal for the clock. Not used. (Connected to ground)

Pin No.	Pin Name	I/O	Description
29	-	-	Not used. (Connected to ground)
30~31	X1-X2	-	A ceramic oscillator which generates the main system clock signal (4.19MHz) is connected.
32	GND	-	Connected to GND.
33~34	XT1~XT2	-	Not used. (Connected to ground)
34	XT2	-	Not used. (Not connected)
35	POW ON	-	Not used. (Not connected) Goes "H" during power on and "L" during power off.
36	CE	O	Output port which transmit serial data to the PLL (LC7218). Active "H".
37	DATA	O	Output port which transmit serial data to the PLL (LC7218). Active "H".
38	CLK	O	Output port which transmit serial data to the PLL (LC7218). Active "H".
39	<u>RESET</u>	I	System reset input. When the TUNER MODE and BAND switches are pressed and held for 1 second, the clock and preset stations are reset.
40~48	D1~D9	O	FL display digit outputs.
49	-	-	Not used. (Not connected)
50~53	Sn~Sk	O	FL display segment outputs.
54~55	-	-	Not used. (Not connected)
56	V LOAD	I	Supplies power (~25V) to the output buffer of the FL display driver.
57	V PRE	I	Connected to GND.
58~60	Sj~Sh	O	FL display segment outputs.
61~63	Sa~Sc	O	FL display segment outputs.
64	VDD	-	+5V power terminal.



# MECHANICAL EXPLODED VIEW 1/1 (TX-Z9300)



# MECHANICAL PARTS LIST 1/1 (TX-Z9300)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カリリ NO.	DESCRIPTION	REF. NO	PART NO.	カリリ NO.	DESCRIPTION
1	82-NE8-032-019		BADGE AIWA 27.5	11	89-VT5-202-010		BUSHING CORD
2	85-VT1-006-019		WINDOW DISPLAY	12	82-VT1-605-010		CORD, FG1P
3	85-VT1-001-019		CAB. FR	13	82-VT1-009-119		CAB. STEEL
4	84-VW5-013-010		RING FOOT	14	81-VX1-207-110		HLDR WIRE
5	87-450-414-019		LB-4 (NICKEL)	15	82-VW2-211-019		FELT, 20-7.5-2
6	85-VT1-003-019		KEY, 10	16	85-VT1-201-019		GUIDE, FL
7	85-VT1-004-019		KEY, BAND	A	87-067-660-019		BVT2+3-8W/O SLOT BLK
8	85-VT1-005-019		KEY, UP/DOWN	B	87-067-632-019		BVT2+3-15 W CONVEX
9	81-VX1-012-019		FOOT, REAR	C	87-067-641-019		UTT2+3-8 W/O SLOT BLK
10	85-VT1-011-019		PANEL, REAR YEEBN	D	87-067-684-010		BVT2+3-6 W/O SLOT

MODEL NO.

# GE - Z9300

## CAUTIONS WHEN SERVICING (GE - Z9300)

Model GE - Z9300 does not have a power supply circuit and a control circuit.  
When servicing the GE - Z9300 connect it to the MX - Z9300M.

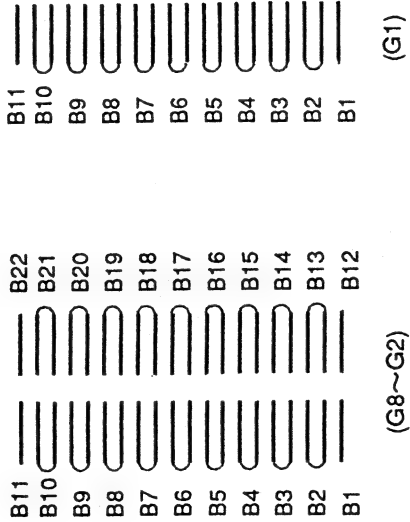
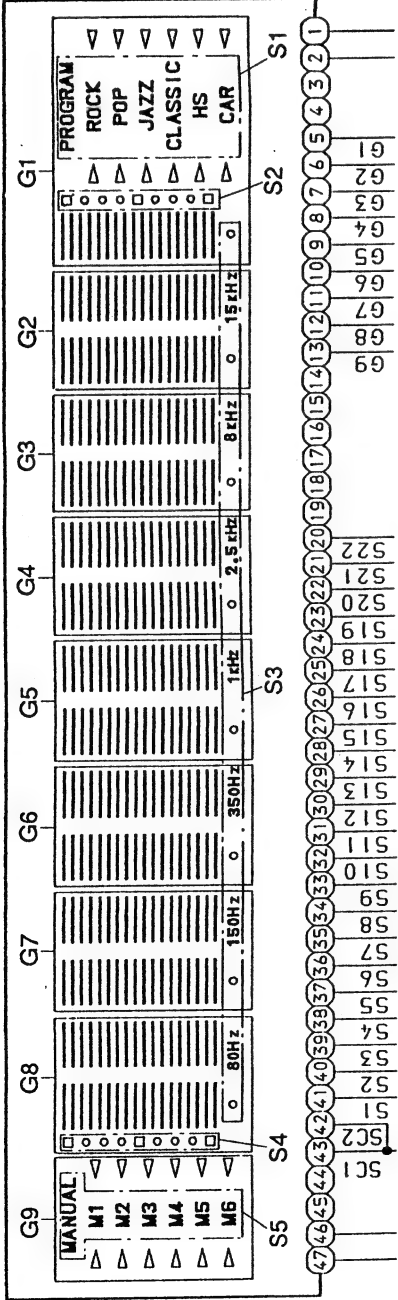
## ELECTRICAL MAIN PARTS LIST (GE-Z9300)

DESCRIPTIONで判断できない物は“REFERENME LIST”を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	か/り NO.	DESCRIPTION	REF. NO	PART NO.	か/り NO.	DESCRIPTION
<b>IC</b>							
	82-VU1-631-010		IC, LC65204A-4B13	C36	87-018-134-089		CAP, TC-U 0.01-16 Y
	87-002-950-019		IC, BA3826S	C37	87-018-127-089		CAP, TC-U 470P-50 B
	87-020-881-089		IC, NJM78L05A	C38	87-018-127-089		CAP, TC-U 470P-50 B
				C44	87-010-101-089		CAP, E 220-16 SME
				C100	87-018-209-089		CAP, TC-U 0.1-50 F
<b>TRANSISTOR</b>							
	89-320-011-089		TR, 2SC2001K	C101	87-018-209-089		CAP, TC-U 0.1-50 F
	87-026-269-089		TR, DTA114ES	C102	87-010-078-080		CAP, E 47-6.3 5L
	87-026-245-089		TR, DTC114ES	C103	87-010-078-080		CAP, E 47-6.3 5L
	89-333-284-089		TR, 2SC3328 Y	FL1	82-VU1-630-019		FL, BJ126GK
	89-110-155-089		TR, 2SA1015GR	FL2	82-VU1-630-019		FL, BJ126GK
<b>DIODE</b>							
	87-020-123-089		DIODE, DS446-AT (TA)	L1	87-003-136-089		COIL, 100UH
	87-027-323-089		ZENER, HZ22-2L	L3	87-003-147-089		COIL, 22UH
	87-027-347-080		ZENER, HZ18LT2	R82	87-022-482-059		RES, NF3.3-1/4WJ
	87-020-691-089		DIODE, 1SS132 T-72	R83	87-022-482-059		RES, NF3.3-1/4WJ
				S1	87-036-215-089		SW, TACT EVQ21404M
	87-010-405-089		CAP, E 10-50 SME	S2	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.1-50 F	S4	87-036-215-089		SW, TACT EVQ21404M
	87-010-075-089		CAP, E 10-16 5L	S5	87-036-215-089		SW, TACT EVQ21404M
	87-010-408-089		CAP, E 47-50 SME	S6	87-036-215-089		SW, TACT EVQ21404M
	87-014-061-089		CAP, PP 1500P-100 J	S7	87-036-215-089		SW, TACT EVQ21404M
	87-015-699-089		CAP, E 10-50 7L	S8	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.01-16 Y	S9	87-036-215-089		SW, TACT EVQ21404M
	87-010-404-089		CAP, E 4.7-50 SME	S10	87-036-215-089		SW, TACT EVQ21404M
	87-010-405-089		CAP, E 10-50 SME	S11	87-036-215-089		SW, TACT EVQ21404M
	87-010-071-089		CAP, E 1-50 5L	S12	87-036-215-089		SW, TACT EVQ21404M
	87-018-131-089		CAP, TC-U 1000P-50 B	S13	87-036-215-089		SW, TACT EVQ21404M
	87-018-131-089		CAP, TC-U 1000P-50 B	S14	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.01-16 Y	S15	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.01-16 Y	S16	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.01-16 Y	S17	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.01-16 Y	S18	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.01-16 Y	S19	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.01-16 Y	S20	87-036-215-089		SW, TACT EVQ21404M
	87-018-134-089		CAP, TC-U 0.01-16 Y	T1	82-VU1-615-119		COIL, FL
	87-018-134-089		CAP, TC-U 0.01-16 Y	W1	82-VU1-632-019		CORD, 9P FG 55CM
	87-018-134-089		CAP, TC-U 0.01-16 Y	X1	89-MX1-704-089		CERA LOCK (MU) 3.9MHZ
	87-018-134-089		CAP, TC-U 0.01-16 Y	X2	89-MX1-704-089		CERA LOCK (MU) 3.9MHZ

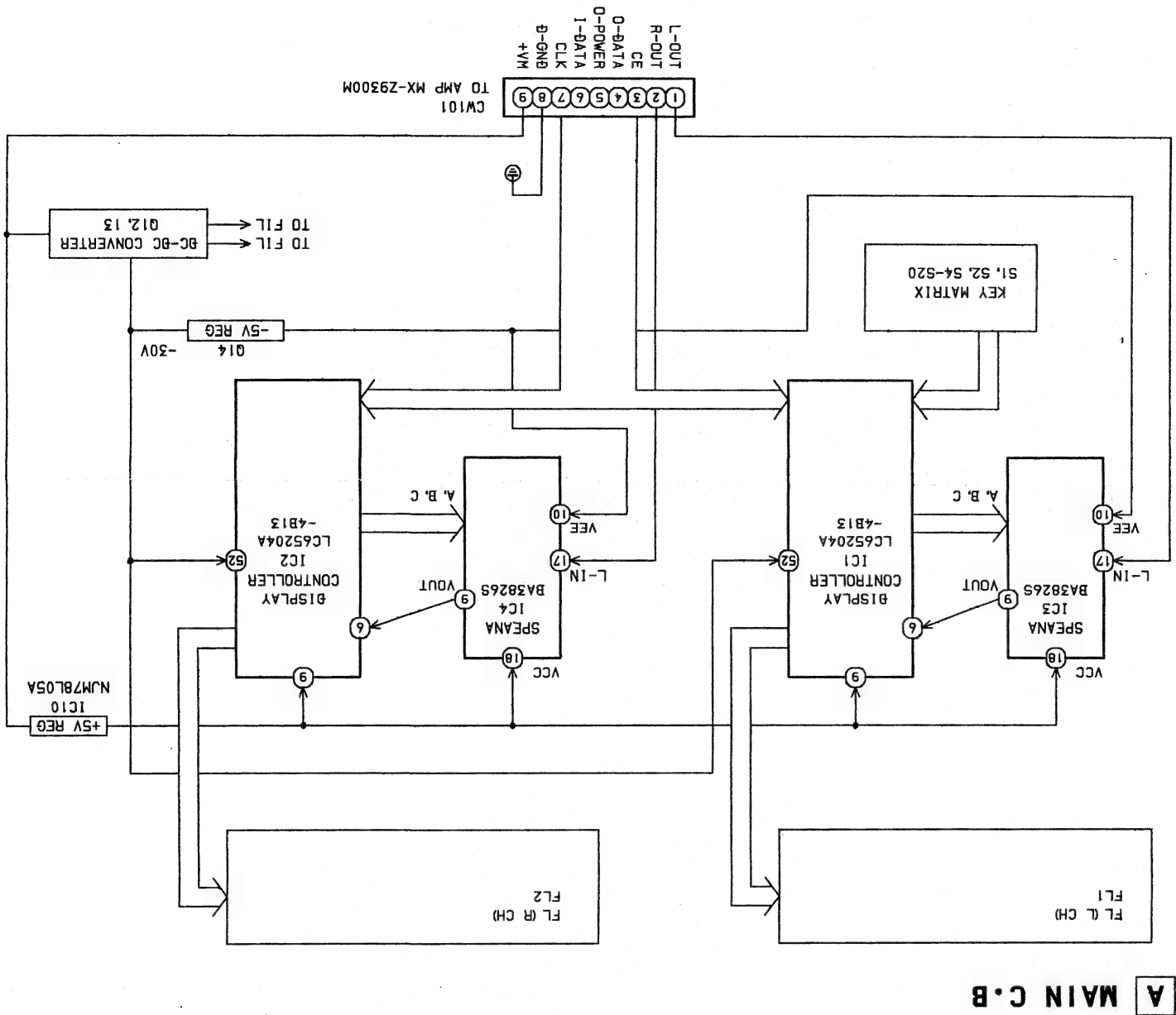
FL (BJ126GK) (GE-Z9300)

GRID ASSIGNMENT



ANODO CONNECTION

	G9	G8	G7	G6	G5	G4	G3	G2	G1
P1	△ (M6) ▽	B1	B1	B1	B1	B1	B1	B1	B1
P2	△ (M5) ▽	B2	B2	B2	B2	B2	B2	B2	B2
P3	△ (M4) ▽	B3	B3	B3	B3	B3	B3	B3	B3
P4	△ (M3) ▽	B4	B4	B4	B4	B4	B4	B4	B4
P5	△ (M2) ▽	B5	B5	B5	B5	B5	B5	B5	B5
P6	△ (M1) ▽	B6	B6	B6	B6	B6	B6	B6	B6
P7	S5	B7	B7	B7	B7	B7	B7	B7	B7
P8	—	B8	B8	B8	B8	B8	B8	B8	B8
P9	—	B9	B9	B9	B9	B9	B9	B9	B9
P10	—	B10	B10	B10	B10	B10	B10	B10	B10
P11	—	B11	B11	B11	B11	B11	B11	B11	B11
P12	—	B12	B12	B12	B12	B12	B12	B12	△ (CAR) ▽
P13	—	B13	B13	B13	B13	B13	B13	B13	△ (HS) ▽
P14	—	B14	B14	B14	B14	B14	B14	B14	△ (CLASSIC) ▽
P15	—	B15	B15	B15	B15	B15	B15	B15	△ (JAZZ) ▽
P16	—	B16	B16	B16	B16	B16	B16	B16	△ (POP) ▽
P17	—	B17	B17	B17	B17	B17	B17	B17	△ (ROCK) ▽
P18	—	B18	B18	B18	B18	B18	B18	B18	S1
P19	—	B19	B19	B19	B19	B19	B19	B19	—
P20	—	B20	B20	B20	B20	B20	B20	B20	—
P21	—	B21	B21	B21	B21	B21	B21	B21	—
P22	—	B22	B22	B22	B22	B22	B22	B22	—
P23	—	S4	—	—	—	—	—	—	S2
P24	—	S3	S3	S3	S3	S3	S3	S3	—

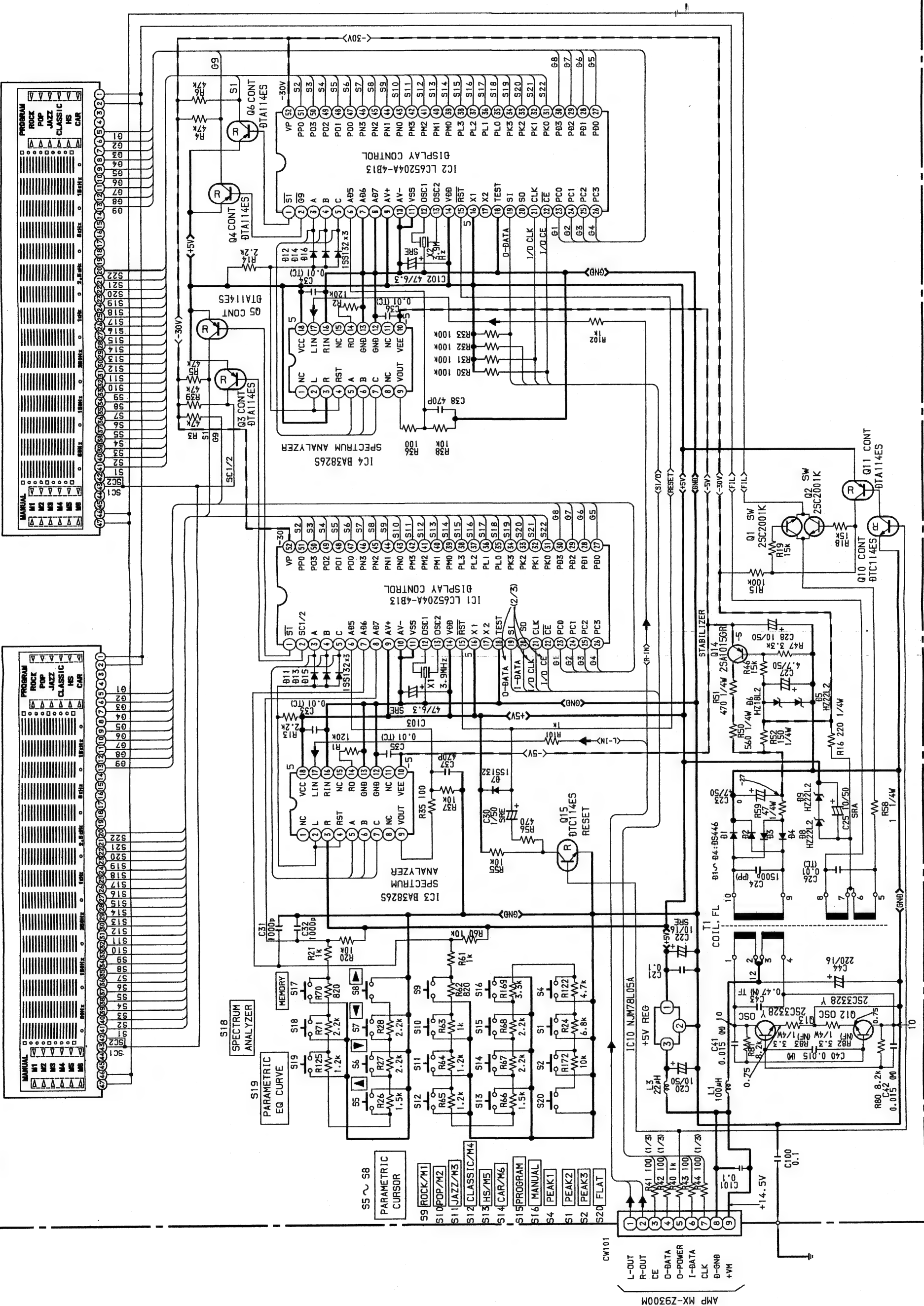


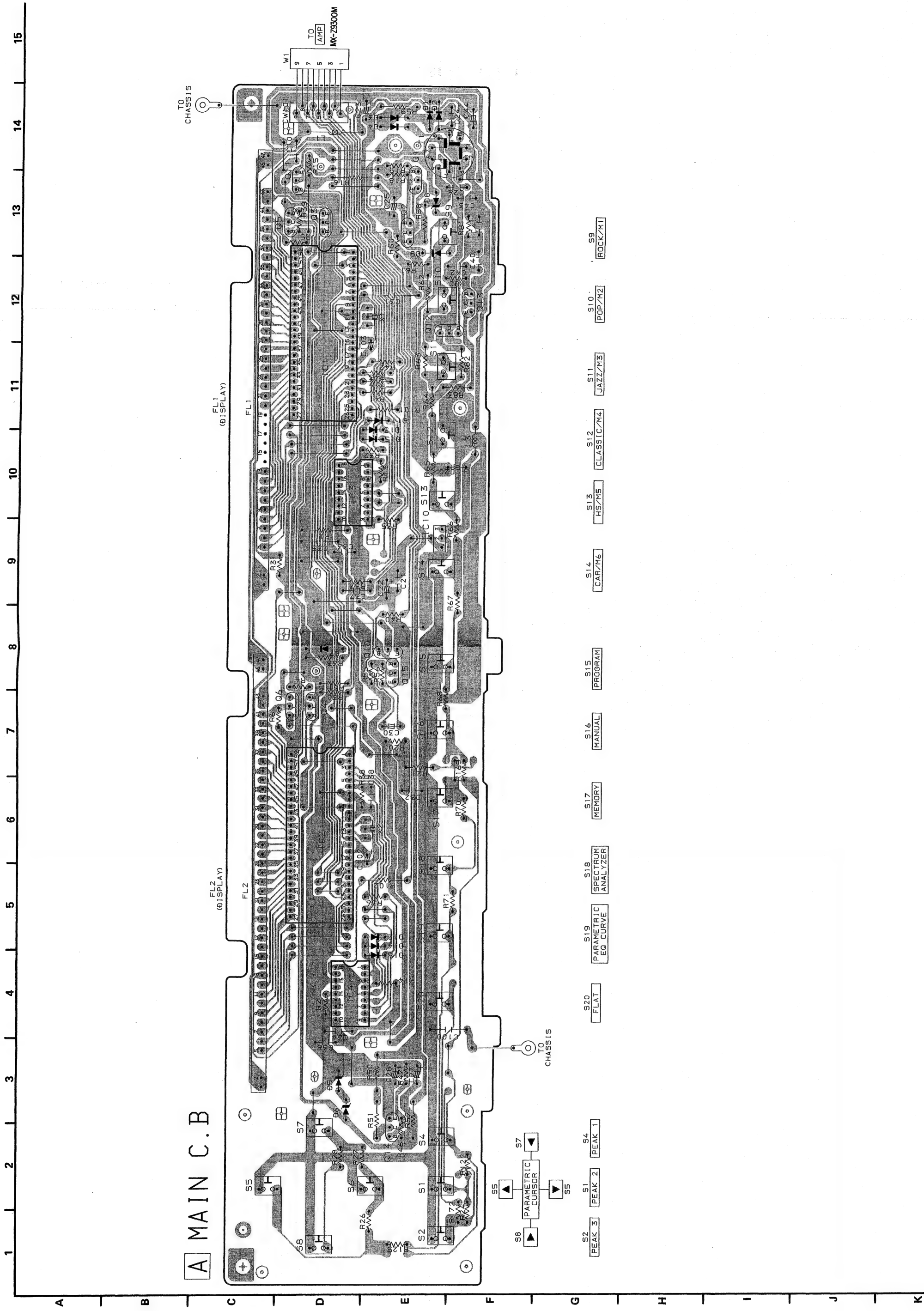


A MAIN C.B

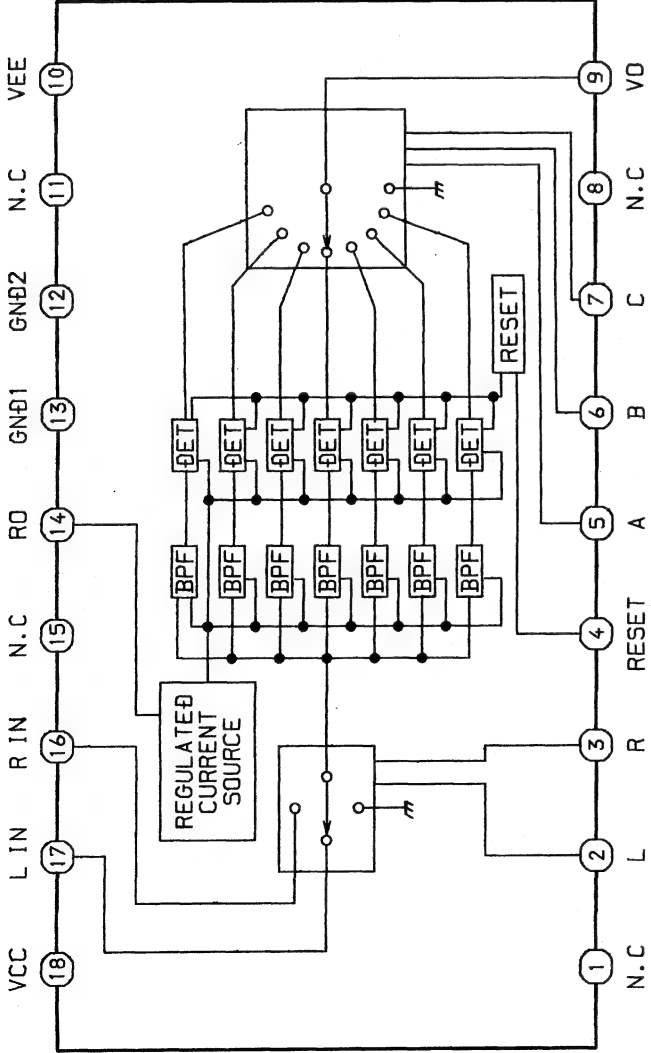
FL1 (DISPLAY)  
BJ126GK

FL2 (DISPLAY)  
BJ126GK





IC, BA3826S



INPUT SELECTOR LOGIC TABLE

SELECTOR		INPUT
L ( 5PIN )	R ( 6PIN )	
	L	UNDETERMINED
	H	L IN
	L	R IN
H	H	OFF

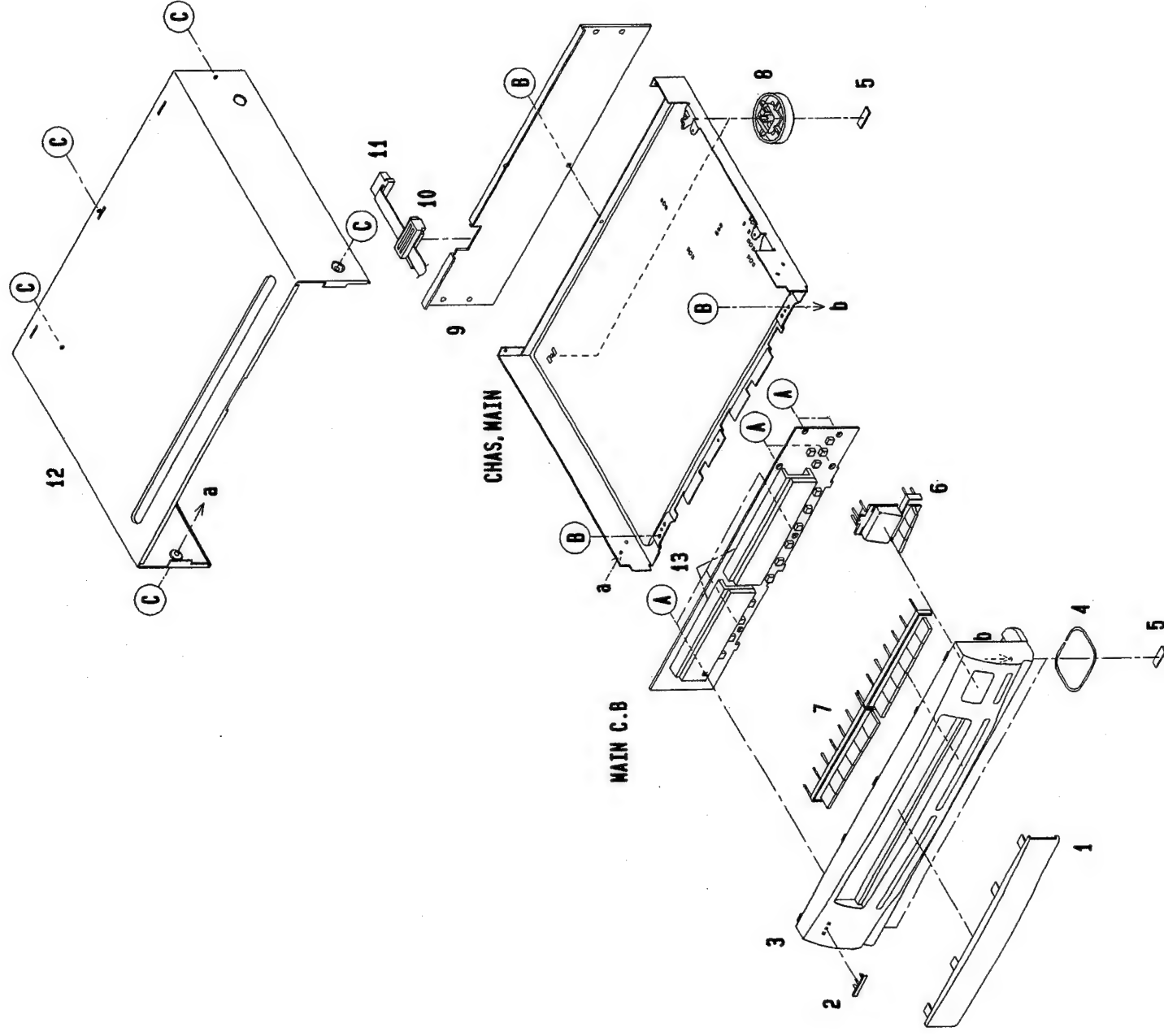
OUTPUT SELECTOR LOGIC TABLE

SELECT			OUTPUT
A ( 5PIN )	B ( 6PIN )	C ( 7PIN )	C ( 7PIN )
	H	H	0
	L	H	F01
	H	L	F02
	L	L	F03
	H	H	F04
L	H	L	F05
	L	L	F06
	L	L	F07

IC, LC65204A-4B13

Pin No.	Pin Name	I/O	Description
1	ST	O	FL display segment output.
2	SC1/2	O	FL display control.
3-5	A-C	O	BA3826S output signal control.
6	AD5	I	Sound detect input. (DC level)
7-8	AD6-AD7	I	A/D input for key input.
9	AV+	—	Connected to +5V line.
10	AV-	—	GND.
11	VSS	—	GND.
12-13	OS1-OS2	—	X'tal terminal. (3.9MHz)
14	VDD	—	Power supply. (+5V)
15	RST	I	Reset signal input.
16	X1	I	Connected to +5V line.
17	X2	—	Not used. (Not connected)
18	TEST	I	Connected to GND.
19	SI	I	Data input from CXP82324.
20	SO	O	Data output to CXP82324.
21	CLK	I	Clock signal input from CXP82324.
22	CE	I	Strobe signal input from CXP82324.
23-26	PC0-PC3	O	FL display grid drive signals.
27-30	PD0-PD3	O	FL display grid drive signals.
31-34	PK0-PK3	O	FL display segment outputs.
35-38	PL0-PL3	O	FL display segment outputs.
39-42	PM0-PM3	O	FL display segment outputs.
43-46	PN0-PN3	O	FL display segment outputs.
47-50	PO0-PO3	O	FL display segment outputs.
51	PP0	O	FL display segment outputs.
52	VP	I	FL display power supply. (-30V)

# MECHANICAL EXPLODED VIEW 1/1 (GE-Z9300)





# MECHANICAL PARTS LIST 1/1 (GE-Z9300)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カッリ NO.	DESCRIPTION	REF. NO	PART NO.	カッリ NO.	DESCRIPTION
1	85-VU1-005-019		WINDOW DISPLAY	10	89-VT5-202-010		BUSHING CORD
2	82-NE8-032-019		BADGE AIWA 27.5	11	82-VU1-632-019		CORD 9PFG55CM
3	85-VU1-001-019		CAB. FR	12	82-VT1-009-119		CAB. STEEL
4	84-VM5-013-010		RING FOOT	13	81-DS2-204-219		GUIDE FL
5	82-VW2-211-019		FELT, 20-7.5-2	A	87-067-703-019		BVT2:3-10 (W/O SLOT)
6	85-VU1-004-019		KEY, CRSR	B	87-067-660-019		BVT2:3-8W/O SLOT BLK
7	85-VU1-003-019		KEY, GEO	C	87-067-641-019		UTT2:3-8 W/O SLOT BLK
8	81-VX1-012-019		FOOT, REAR				
9	85-VU1-002-019		PANEL, REAR YBN(Y)				
9	85-VU1-010-019		PANEL, REAR YJBN(YJ)				

# MODEL NO. SX-Z9300

## SPEAKER LIST

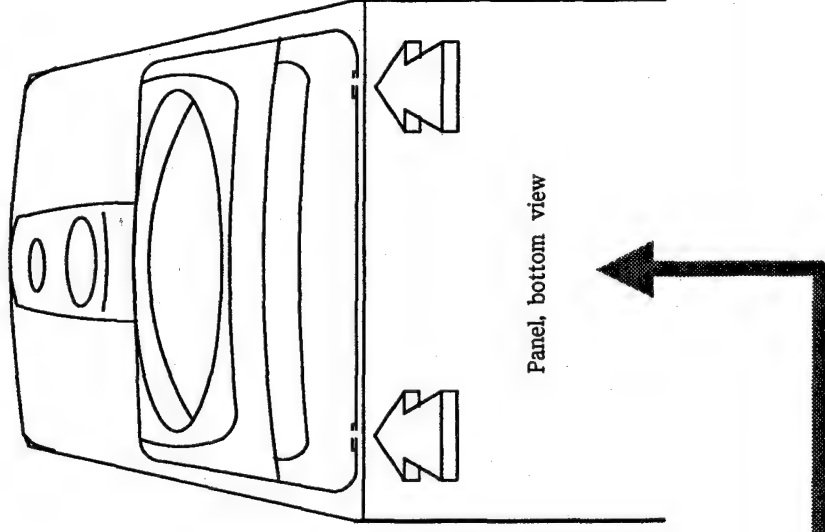
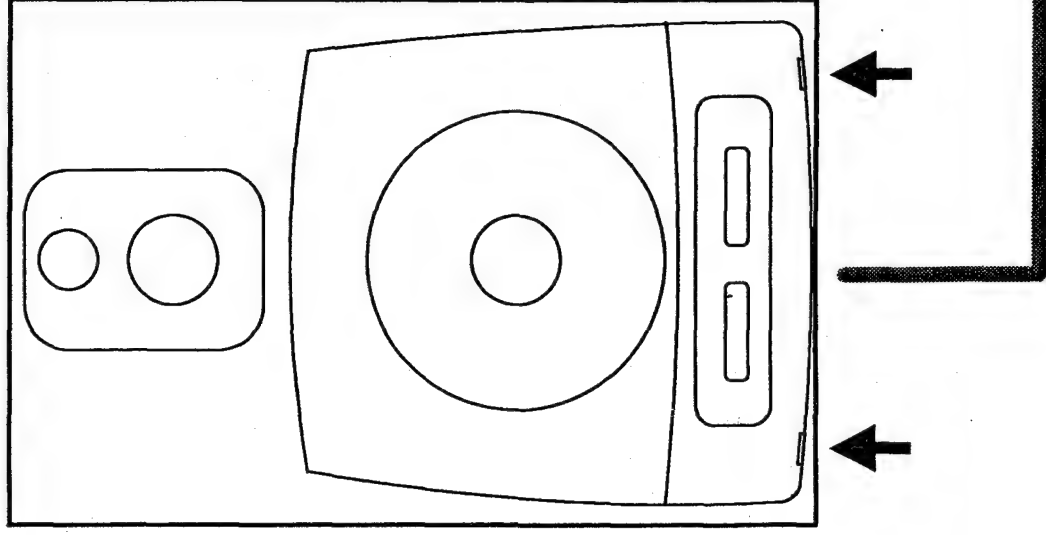
DESCRIPTIONで判断できない物は“REFERENME LIST”を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO	PART NO.	かんり NO.	DESCRIPTION
1	85-VS1-002-010		PANEL W
2	85-VS1-003-010		PANEL TW ASSY
3	84-VS1-005-010		GRILL FRAME ASSY
4	84-VS1-602-010		SPEAKER WOOFER
5	83-NSD-604-010		SPEAKER TWEETER

## ■ DISASSEMBLY INSTRUCTIONS

• Insert a flat - bladed screwdriver into the position indicated by the arrows (shown in the below figure ) and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

• SX - Z9300 (3 WAY SPEAKER SYSTEM)



Panel, bottom view

## REFERENCE NAME LIST

### ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP, CERA

サービス技術ニュース	
番号	連絡内容
G -	-
G -	-
G -	-

**アイワ株式会社**  
**AIWA CO.,LTD.**

〒110 東京都台東区池之端 1-2-11

☎ 03 (3827) 3111 (代表)

Printed by: Schaltungsdienst Lange Berlin (Germany)

### MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLY-WHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM, SHAFT
ジグガイド	GUIDE, SHAFT
ストラップ	STRAP
ストクナベ	S-SCREW
ヒンジ	HINGE
ビスジビス	S-SCREW
ビスセレート	SCREW, SERRART

921502 931196 750038

Tokyo Japan

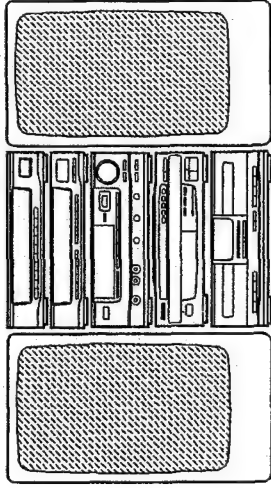
# aiwa



AIWA-01596



## Z-D7300M Z-D8300M



### STEREO SYSTEM

• BASIC TAPE MECHANISM : Z2M-1P1, R1

• TYPE: HE,LH,EE,K,EEZ

# SERVICE

SYSTEM	CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	GRAPHIC EQUALIZER	SPEAKER	CD PLAYER
Z-D7300M (EE,EEZ)	CU-DZ7300M (HE,LH)	MX-Z7300M	FX-WZ7300	TX-Z9300	GE-Z7300	*1 SX-FZ7300 (EE,EEZ) SX-FZ9300 (HE,LH)	DX-Z9300M
Z-D8300M (K)	-	MX-Z8300M (K)	FX-WZ7300	TX-Z9300	GE-Z7300	SX-FZ7300	DX-Z9300M

\*1 CENTER SYSTEM does not have \*1.

• As to the service information of TUNER and SPEAKER (SX-Z9300), see the individual service manual of original. (S/M Code No. 09-954-101-50I & 09-956-105-50I)

• As to the service information of CD PLAYER, see the individual service manual of original. (S/M Code No. 09-954-101-60I)

# MANUAL



## TABLE OF CONTENTS

SPECIFICATIONS.....	3
TRANSISTOR ILLUSTRATION (MX-Z7300M/8300M, FX-WZ7300, GE-Z7300)	
ACCESSORIES/PACKAGE LIST.....	4
MODEL NO. MX-Z7300M/8300M	
ELECTRICAL MAIN PARTS LIST.....	5~7
IC BLOCK DIAGRAM -1.....	8~10
BLOCK DIAGRAM -1.....	11~12
WIRING -1.....	13~14
SCHEMATIC DIAGRAM -1.....	15~17
SCHEMATIC DIAGRAM -2.....	18~19
WIRING -2.....	20~21
SCHEMATIC DIAGRAM -3.....	22~23
IC DESCRIPTION.....	24~25
FL DISPLAY.....	26
MECHANICAL EXPLODED VIEW 1/1.....	27
MECHANICAL PARTS LIST 1/1.....	28
MODEL NO. FX-WZ7300	
CAUTION WHEN SERVICING.....	29
ELECTRICAL MAIN PARTS LIST.....	30~31
BLOCK DIAGRAM -1.....	32~33
WIRING -1.....	34~35
SCHEMATIC DIAGRAM -1.....	36~38
WIRING -2.....	39~40
IC DESCRIPTION.....	41~42
IC BLOCK DIAGRAM.....	43
ADJUSTMENT / PRACTICAL SERVICE FIGURE .....	44~45
MECHANICAL EXPLODED VIEW 1/1.....	46
MECHANICAL PARTS LIST 1/1.....	47
TAPE MECHANISM EXPLODED VIEW 1/2.....	48
TAPE MECHANISM EXPLODED VIEW 2/2.....	49
TAPE MECHANICAL PARTS LIST 1/1.....	50
SPRING APPLICATION POSITION.....	51
MODEL NO. GE-Z7300	
CAUTION WHEN SERVICING.....	52
ELECTRICAL MAIN PARTS LIST.....	52
FL DISPLAY.....	53
IC DESCRIPTION.....	54
WIRING -1.....	55~56
SCHEMATIC DIAGRAM -1.....	57~58
IC BLOCK DIAGRAM.....	59
MECHANICAL EXPLODED VIEW 1/1.....	60
MECHANICAL PARTS LIST 1/1.....	61
MODEL NO. SX-Z7300	
DIASSEMBLY INSTRUCTIONS.....	62
SPEAKER PARTS LIST 1/1.....	63
REFERENCE NAME LIST.....	64

## SPECIFICATIONS

### TUNER TX-Z9300

#### <FM tuner section>

Tuning range 87.5 MHz to 108 MHz

HE, LH:

Usable sensitivity (IHF) 15.2 dBf (1.6  $\mu$ V, 75 ohms)

EE, K, EZ:

18.2 dBf (2.2  $\mu$ V, 75 ohms)

75 ohms (unbalanced)

#### Antenna terminals

#### <AM tuner section> (HE, LH only)

##### Tuning range

531 kHz to 1602 kHz (9 kHz step)

530 kHz to 1710 kHz (10 kHz step)

400  $\mu$ V/m

Loop antenna

#### <MW tuner section> (EE, K, EZ only)

##### Tuning range

522 kHz to 1611 kHz

400  $\mu$ V/m

Loop antenna

#### <LW tuner section> (EE, K, EZ only)

##### Tuning range

144 kHz to 290 kHz

1000  $\mu$ V/m

Loop antenna

#### <General>

Dimension (W x H x D)

360 x 88.5 x 320.5 mm

(14 $\frac{1}{4}$  x 3 $\frac{1}{2}$  x 12 $\frac{5}{8}$  in.)

2.1 kg (4 lbs 10 oz)

#### Weight

### AMPLIFIER MX-Z7300M/8300M

#### Power requirements

HE, LH:

120/220 - 230/240 V AC switchable

50/60 Hz

EE, K, EZ:

230 V 50 Hz

HE, LH:

105 W (System total 140 W)

EE, K, EZ:

330 W (System total 365 W)

Rated: 60 W + 60 W (without

connecting to the SURROUND

SPEAKERS, 6 ohms, T.H.D. 1%,

1 kHz/DIN 45500)

Reference: 75 W + 75 W (without

connecting to the SURROUND

SPEAKERS, 6 ohms, T.H.D. 10%,

1 kHz/DIN 45324)

DIN MUSIC POWER: 98 W + 98 W

0.1% (38 W, 1 kHz, 6 ohms)

SPEAKERS: accepts speakers of

6 ohms or more

PHONES (stereo standard jack):

accepts headphones of 32 ohms

or more

SUPER WOOFER: 1.5V

MONITOR OUT: 1 Vp-p (75 ohms)

REC OUT: 300 mV (1 kohm)

SURROUND SPEAKERS: accepts

speakers of 16 ohms or more

VIDEO 1/AUX 1: 300 mV (39 kohms)

VIDEO 2/AUX 2: 500 mV (39 kohms)

PHONO IN:

500 mV or more (36 kohms)

HE, LH:

MIC 1, MIC 2: 1.4 mV (10 kohms)

EE, K, EZ:

MIC 1, MIC 2: 1.1 mV (10 kohms)

360 x 128.5 x 329 mm

(14 $\frac{1}{4}$  x 5 $\frac{1}{8}$  x 13 in.)

6.9 kg (15 lbs 3 oz)

Dimension (W x H x D)

#### Weight

### STEREO CASSETTE DECK FX-WZ7300

#### Track format

4 tracks, 2 channels stereo

Metal tape: 20 Hz - 17000 Hz

CrO<sub>2</sub> tape: 20 Hz - 16000 Hz

Normal tape: 20 Hz - 15000 Hz

HE, LH:

Signal-to-noise ratio 65 dB (Dolby NR ON, metal tape

peak level above 5 kHz)

EE, K, EZ:

65 dB (Dolby NR ON, metal tape

peak level above 5 kHz)

0.12% (WRMS)  $\pm$  0.19% (WPEAK)

AC bias

Deck 1: Playback head x 1

Deck 2: Recording/playback/

erase head x 1

360 x 128.5 x 313 mm

(14 $\frac{1}{4}$  x 5 $\frac{1}{8}$  x 12 $\frac{5}{8}$  in.)

3.2 kg (7 lbs 1 oz)

### GRAPHIC EQUALIZER GE-Z7300

Input 210 mV(47 kohms)

Output 210 mV(47 kohms)

Dimensions (W x H x D)

360 x 88.5 x 310.5 mm

(14 $\frac{1}{4}$  x 3 $\frac{1}{2}$  x 12 $\frac{1}{4}$  in.)

2 kg (4 lbs 7 oz)

### SPEAKER SYSTEM SX-FZ7300 (EE, K, EZ only)

#### Cabinet type

3 way, bass reflex (Magnetism

sealed type)

Speaker Woofer: 220 mm (8 $\frac{3}{4}$  in.) cone type

Tweeter: 60 mm (2 $\frac{3}{8}$  in.) cone type

Super tweeter: 30 mm (1 $\frac{3}{16}$  in.)

ceramic type

Impedance 6 ohms

Output sound pressure level

90 dBW/m

Dimensions (W x H x D)

280 x 545 x 230 mm

(11 $\frac{1}{2}$  x 21 $\frac{1}{2}$  x 9 $\frac{1}{8}$  in.)

Weight 6.8 kg (15 lbs)

### SPEAKER SYSTEM SX-FZ9300 (HE, LH only)

#### Cabinet type

3 way, bass reflex (Magnetism

sealed type)

Speaker Woofer: 220 mm (8 $\frac{3}{4}$  in.) cone type

Tweeter: 60 mm (2 $\frac{3}{8}$  in.) cone type

Super tweeter: 30 mm (1 $\frac{3}{16}$  in.)

ceramic type

Impedance 6 ohms

Output sound pressure level

90 dBW/m

Dimensions (W x H x D)

280 x 545 x 230 mm

(11 $\frac{1}{2}$  x 21 $\frac{1}{2}$  x 9 $\frac{1}{8}$  in.)


Weight 7.4 kg (16 lbs 5 oz)

• Design and specifications are subject to change without

notice.

• Dolby noise reduction manufactured under license from Dolby

Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol  are trademarks of Dolby

Laboratories Licensing Corporation.

• The word "BBE" and the "BBE symbol" are trademarks of BBE

Sound, Inc.

Under license from BBE Sound, Inc.

# TRANSISTOR ILLUSTRATION (MX-Z7300M/8300M, FX-WZ7300, GE-Z7300)



E C B

2SC1815  
2SC2240  
2SC3266  
2SD655



E C B

2SA1015  
2SA1296  
2SA952  
2SC1815  
2SC2001



B C E

2SB1370



E C B

2SA1318  
2SC3331



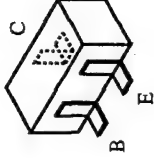
E C B

2SA933  
2SC1740  
2SD2144  
DTA114YS  
DTA114ES  
DTA124ES  
DTA144ES  
DTC114ES  
DTC114YS  
DTC144ES



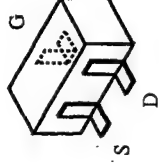
G D S

2SJ176  
2SK1094



B E

2SA1362  
2SC3326  
2SC2712  
2SC3328Y  
DTA114EK  
DTC143TK  
DTC144EK  
DTA123JK  
DTC114ES



S D

2SK368

## ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-VP2-901-019	IB,ESF(S)<EE,EEZ,K>		2	85-VP2-619-019	RC,RC-T511	
1	85-VP2-902-019	IB,EGI(S)<EE,EEZ>		3	87-099-789-019	PLUG,ADPTR IF44<HE,LH>	
1	85-VP2-903-019	IB,ESC(S)<HE,LH>					

# MX-Z7300M/8300M

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

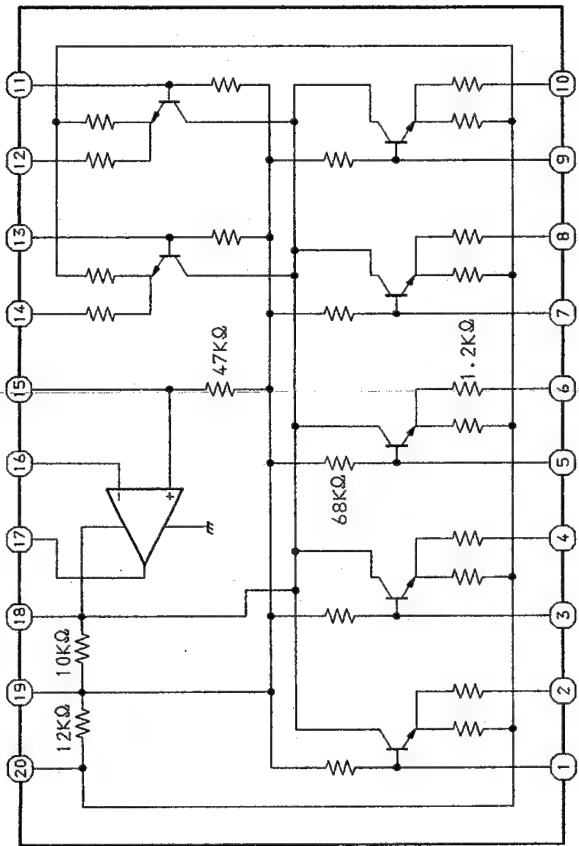
- 5 -



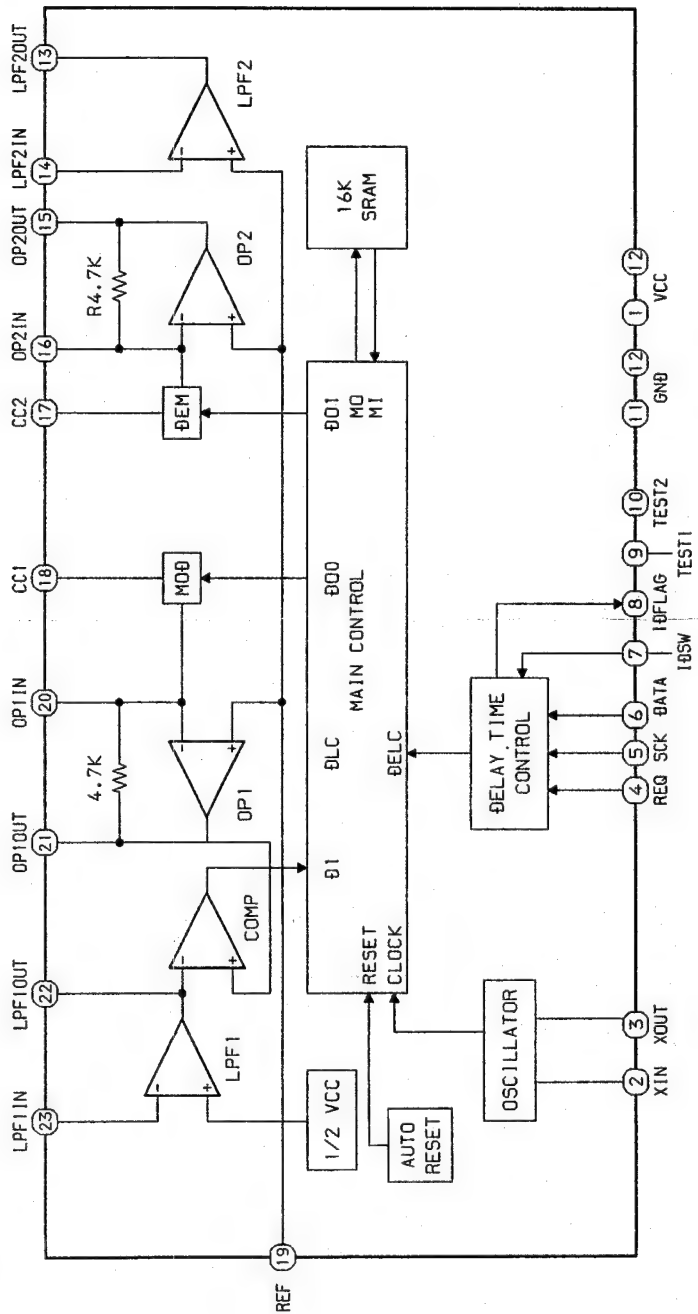
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C286	87-010-405-089		CAP, E 10-50 SME	C683	87-010-401-089		CAP, E 1-50 SME
C287	87-010-405-089		CAP, E 10-50 SME	C684	87-010-401-089		CAP, E 1-50 SME
C288	87-010-405-089		CAP, E 10-50 SME	C685	87-010-400-089		CAP, E 0.47-50 SME
C289	87-010-401-089		CAP, E 1-50 SME	C686	87-010-400-089		CAP, E 0.47-50 SME
C290	87-010-404-089		CAP, E 4.7-50 SME	C687	87-010-401-089		CAP, E 1-50 SME
C291	87-018-195-089		CAP, TC-U 1200P-16 X	C688	87-010-401-089		CAP, E 1-50 SME
C292	87-018-195-089		CAP, TC-U 1200P-16 X	C689	87-016-096-089		CAP, E 47-16 FX
C293	87-018-128-089		CAP, TC-U 560P-50 B	C690	87-016-096-089		CAP, E 47-16 FX
C294	87-018-128-089		CAP, TC-U 560P-50 B	C691	87-010-405-089		CAP, E 10-50 SME
C301	87-018-214-089		CAP, TC U 0.1-50 F<EEZ, K>	C692	87-010-405-089		CAP, E 10-50 SME
C301	87-018-121-089		CAP, TC-U 150P-50 B	C695	87-010-400-089		CAP, E 0.47-50 SME
C302	87-018-121-089		CAP, TC-U 150P-50 B	C696	87-010-401-089		CAP, E 1-50 SME
C303	87-018-214-089		CAP, TC U 0.1-50 F<EEZ, K>	C697	87-010-403-089		CAP, E 3.3-50 SME
C360	87-010-404-089		CAP, E 4.7-50 SME	C698	87-010-403-089		CAP, E 3.3-50 SME
C365	87-018-115-089		CAP, TC-U 47P-50 SL	C699	87-010-544-089		CAP, E 0.1-50
C403	87-018-127-089		CAP, TC-U 470P-50 B	C701	87-010-392-089		CAP, E 33-35 SME
C404	87-018-127-089		CAP, TC-U 470P-50 B	C702	87-010-392-089		CAP, E 33-35 SME
C501	87-010-404-089		CAP, E 4.7-50 SME	C703	87-018-128-089		CAP, TC-U 560P-50 B
C502	87-010-404-089		CAP, E 4.7-50 SME	C704	87-018-128-089		CAP, TC-U 560P-50 B
C505	87-018-123-089		CAP, TC-U 220P-50 B	C705	87-018-214-089		CAP, TC U 0.1-50 F
C506	87-018-123-089		CAP, TC-U 220P-50 B	C707	87-018-121-089		CAP, TC-U 150P-50 B<EEZ>
C507	87-010-404-089		CAP, E 4.7-50 SME	C708	87-018-121-089		CAP, TC-U 150P-50 B<EEZ>
C508	87-010-404-089		CAP, E 4.7-50 SME	C709	87-018-133-089		CAP, TC-U 4700P-16 X
C509	87-018-127-089		CAP, TC-U 470P-50 B	C710	87-018-133-089		CAP, TC-U 4700P-16 X
C510	87-018-127-089		CAP, TC-U 470P-50 B	C758	87-010-410-089		CAP, E 330-50 SME
C511	87-010-402-089		CAP, E 2.2-50 SME	C759	87-010-374-089		CAP, E 47-10
C512	87-010-402-089		CAP, E 2.2-50 SME	C760	87-010-374-089		CAP, E 47-10
C515	87-010-546-089		CAP, E 0.33-50 SME	C761	87-018-104-089		CAP, TC-U 10P-50 SL
C516	87-010-546-089		CAP, E 0.33-50 SME	C762	87-018-104-089		CAP, TC-U 10P-50 SL
C519	87-010-544-089		CAP, E 0.1-50	C763	87-010-260-089		CAP, E 47-25 SME
C520	87-010-544-089		CAP, E 0.1-50	C764	87-010-260-089		CAP, E 47-25 SME
C525	87-018-203-089		CAP, TC-U 8200P-16 Y	C765	87-018-119-089		CAP, TC-U 100P-50 B
C526	87-018-203-089		CAP, TC-U 8200P-16 Y	C765	87-018-125-089		CAP, TC-U 330P-50 B<EEZ>
C529	87-018-199-089		CAP, TC-U 3300P-16 X	C766	87-018-125-089		CAP, TC-U 330P-50 B<EEZ>
C530	87-018-199-089		CAP, TC-U 3300P-16 X	C771	87-018-202-089		CAP, TC-U 6800P-16 X<EEZ>
C533	87-018-131-089		CAP, TC-U 1000P-50 B	C772	87-018-202-089		CAP, TC-U 6800P-16 X<EEZ>
C534	87-018-131-089		CAP, TC-U 1000P-50 B	C773	87-018-134-089		CAP, TC-U 0.01-16 Y
C535	87-018-199-089		CAP, TC-U 3300P-16 X	C800	87-018-134-089		CAP, TC-U 0.01-16 Y
C536	87-018-199-089		CAP, TC-U 3300P-16 X	CB1	87-026-584-010		PROTECTOR, R303 T100A<EXCEPT LH>
C537	87-018-127-089		CAP, TC-U 470P-50 B	EM11	87-008-372-019		FLTR, EMI BL 01RNI<EEZ>
C538	87-018-127-089		CAP, TC-U 470P-50 B	J280	87-099-277-019		JACK, 6.3 W/S
C539	87-010-260-089		CAP, E 47-25 SME	J281	87-099-064-019		JACK, 6.3 W/S
C540	87-010-260-089		CAP, E 47-25 SME	J283	87-099-064-019		JACK, 6.3 W/S
C541	87-010-260-089		CAP, E 47-25 SME	J750	81-VP1-634-019		JACK, PIN 3P
C543	87-018-131-089		CAP, TC-U 1000P-50 B	J751	81-VP1-634-019		JACK, PIN 3P
C544	87-018-131-089		CAP, TC-U 1000P-50 B	J752	81-VP1-634-019		JACK, PIN 3P
C601	87-018-127-089		CAP, TC-U 470P-50 B	J753	87-009-393-019		JACK, PIN 2P EARTH
C602	87-010-405-089		CAP, E 10-50 SME	J759	84-VP2-630-019		JACK, PIN 3P B.W.R
C630	87-010-401-089		CAP, E 1-50 SME	J760	87-033-225-019		TERMINAL, SP-4P N
C631	87-018-201-089		CAP, TC-U 5600P-16 X	L642	87-003-152-089		COIL, 100UH
C632	87-018-131-089		CAP, TC-U 1000P-50 B	L751	87-005-366-019		COIL, 1UH<EEZ>
C634	87-010-374-089		CAP, E 47-10	L752	87-005-366-019		COIL, 1UH<EEZ>
C635	87-018-214-089		CAP, TC U 0.1-50 F	R40	87-022-050-089		RESIS METAL 1W-0.22J
C636	87-018-214-089		CAP, TC U 0.1-50 F	R45	87-022-050-089		RESIS METAL 1W-0.22J
C638	87-018-201-089		CAP, TC-U 5600P-16 X	R734	87-025-467-089		RES, NF 1-1/4 WJ
C639	87-018-131-089		CAP, TC-U 1000P-50 B	R769	87-025-473-089		RES, NF 10-1/4W J
C640	87-010-401-089		CAP, E 1-50 SME	R770	87-025-473-089		RES, NF 10-1/4W J
C641	87-018-201-089		CAP, TC-U 5600P-16 X	R777	87-022-050-089		RESIS METAL 1W-0.22J
C642	87-010-374-089		CAP, E 47-10	R778	87-022-050-089		RESIS METAL 1W-0.22J
C644	87-010-405-089		CAP, E 10-50 SME	R779	87-022-050-089		RESIS METAL 1W-0.22J
C645	87-010-112-089		CAP, E 100-16 SME	R780	87-022-050-089		RESIS METAL 1W-0.22J
C646	87-018-119-089		CAP, TC-U 100P-50 B	RY1	87-045-285-010		RELAY, VB12MB
C647	87-018-119-089		CAP, TC-U 100P-50 B	RY2	87-045-382-019		RELAY, OUAZ-SH-112L
C648	87-010-544-089		CAP, E 0.1-50	VR141	84-VP2-632-019		VR, 50KEX2 RK14K1210
C649	87-010-406-089		CAP, E 22-50 SME	VR281	81-VP1-622-019		VR, 10KA RK11K112
C670	87-010-405-089		CAP, E 10-50 SME	VR282	81-VP1-622-019		VR, 10KA RK11K112
C671	87-010-400-089		CAP, E 0.47-50 SME	VR372	81-VP1-627-019		VOL, 100KW RK11K112
C681	87-016-072-089		CAP, E 0.47-50 FX	WH101	85-VP2-618-019		CONN ASSY, 10P TSL
C682	87-016-072-089		CAP, E 0.47-50 FX	X630	87-030-172-019		VIB, CER CSB1000J

IC BLOCK DIAGRAM - 1 (MX-Z7300M/8300M)

IC, LA3607

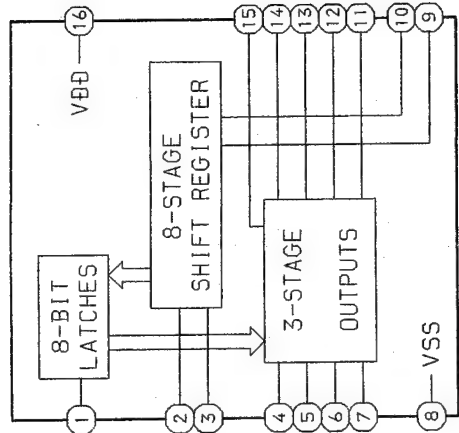


IC, M65830AFP

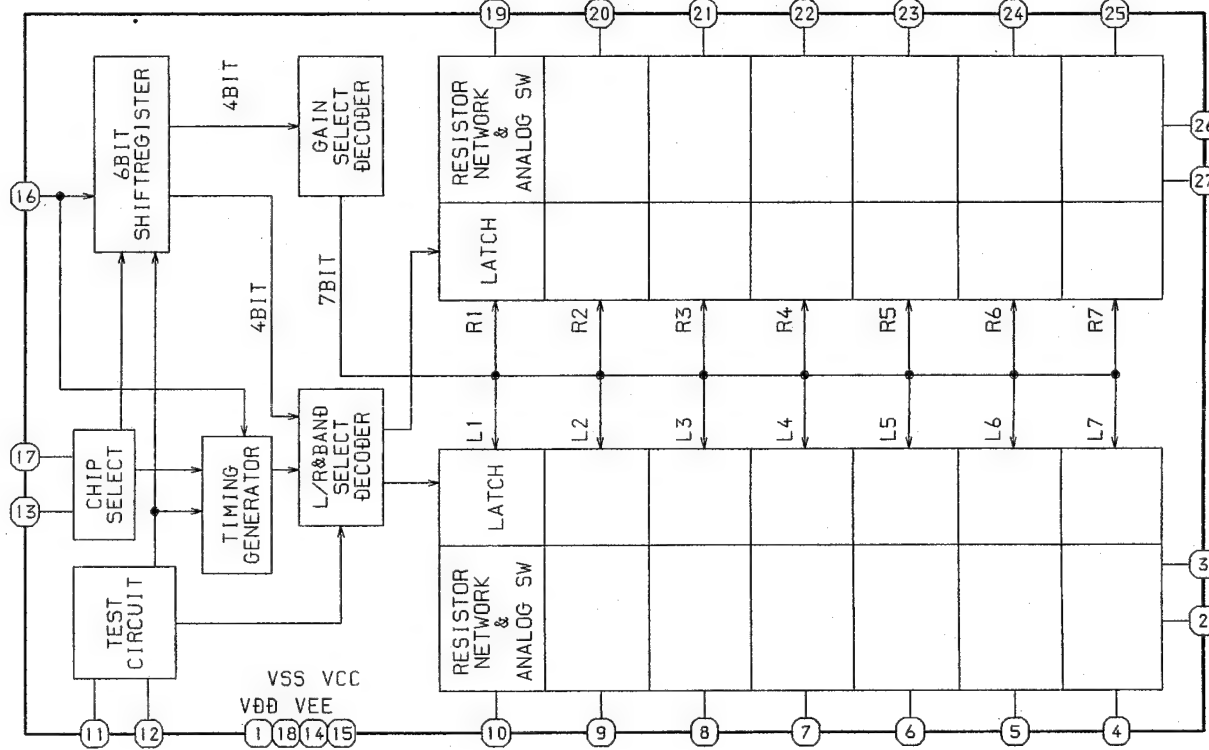


REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
C208	87-018-121-089	CAP, TC-U 150P-50 B<EEZ>	C208	87-018-121-089	CAP, TC-U 150P-50 B<EEZ>
C210	87-018-134-089	CAP, TC-U 0.01-16 Y	C210	87-018-134-089	CAP, TC-U 0.01-16 Y
VR1	82-VP2-639-019	VR, 50KX2 MOTOR(SH)	VR1	82-VP2-639-019	VR, 50KX2 MOTOR(SH)
GEQ C.B			GEQ C.B		
AC 2 C.B			AC 2 C.B		
△	87-050-100-019	AC CORD ASSY, K3P<K>	△	87-050-100-019	AC CORD ASSY, K3P<K>
△	87-050-034-019	AC CORD ASSY, E<EXCEPT K>	△	87-050-034-019	AC CORD ASSY, E<EXCEPT K>
△	87-033-213-089	CLAMP FUSE SMK	△	87-033-213-089	CLAMP FUSE SMK
△	87-035-406-019	FUSE, 5A 125V UL, D<LH>	△	87-035-406-019	FUSE, 5A 125V UL, D<LH>
△	87-035-369-019	FUSE, 5A 250V TB<EXCEPT LH>	△	87-035-369-019	FUSE, 5A 250V TB<EXCEPT LH>
△	87-035-406-019	FUSE, 5A 125V UL, D<LH>	△	87-035-406-019	FUSE, 5A 125V UL, D<LH>
△	87-035-369-019	FUSE, 5A 250V TB<EXCEPT LH>	△	87-035-369-019	FUSE, 5A 250V TB<EXCEPT LH>
△	85-VP2-614-019	PT, 5VP-2 E<EE, EEZ, K>	△	85-VP2-614-019	PT, 5VP-2 E<EE, EEZ, K>
△	85-VP2-613-019	PT, 5VP-2 H<HE, LH>	△	85-VP2-613-019	PT, 5VP-2 H<HE, LH>
△	87-022-200-089	RES METAL 0.56-1W	△	87-022-200-089	RES METAL 0.56-1W
△	87-022-200-089	RES METAL 0.56-1W	△	87-022-200-089	RES METAL 0.56-1W
AC 1 C.B<HE, LH>			AC 1 C.B<HE, LH>		
△	87-033-213-089	CLAMP FUSE SMK<HE, LH>	△	87-033-213-089	CLAMP FUSE SMK<HE, LH>
△	87-035-415-010	FUSE, T2.5A<HE, LH>	△	87-035-415-010	FUSE, T2.5A<HE, LH>
AC SW C.B<HE, LH>			AC SW C.B<HE, LH>		
△	87-036-173-019	SW, SL 2-2-4 SDRG<HE, LH>	△	87-036-173-019	SW, SL 2-2-4 SDRG<HE, LH>
FRONT C.B			FRONT C.B		
C1	87-010-401-089	CAP, E 1-50 SME	C1	87-010-401-089	CAP, E 1-50 SME
C2	87-010-401-089	CAP, E 1-50 SME	C2	87-010-401-089	CAP, E 1-50 SME
C3	87-010-405-089	CAP, E 10-50 SME	C3	87-010-405-089	CAP, E 10-50 SME
C5	87-010-550-049	CAP, E 100-6.3 GAS	C5	87-010-550-049	CAP, E 100-6.3 GAS
C15	87-018-134-089	CAP, TC-U 0.01-16 Y	C15	87-018-134-089	CAP, TC-U 0.01-16 Y
C16	87-018-134-089	CAP, TC-U 0.01-16 Y	C16	87-018-134-089	CAP, TC-U 0.01-16 Y
C19	87-018-131-089	CAP, TC-U 1000P-50 B	C19	87-018-131-089	CAP, TC-U 1000P-50 B
C21	87-010-401-089	CAP, E 1-50 SME	C21	87-010-401-089	CAP, E 1-50 SME
C22	87-018-209-089	CAP, TC-U 0.1-50 F	C22	87-018-209-089	CAP, TC-U 0.1-50 F
C23	87-018-209-089	CAP, TC-U 0.1-50 F	C23	87-018-209-089	CAP, TC-U 0.1-50 F
C24	87-018-209-089	CAP, TC-U 0.1-50 F	C24	87-018-209-089	CAP, TC-U 0.1-50 F
C160	87-010-263-089	CAP, E 100-10	C160	87-010-263-089	CAP, E 100-10
C370	87-018-210-089	CAP, TC 0.033-12 Y<HE>	C370	87-018-210-089	CAP, TC 0.033-12 Y<HE>
C382	87-018-202-089	CAP, TC-U 6800P-16 X<HE>	C382	87-018-202-089	CAP, TC-U 6800P-16 X<HE>
C383	87-018-195-089	CAP, TC-U 1200P-16 X<HE>	C383	87-018-195-089	CAP, TC-U 1200P-16 X<HE>
C384	87-018-209-089	CAP, TC-U 0.1-50 F<HE>	C384	87-018-209-089	CAP, TC-U 0.1-50 F<HE>
C385	87-010-553-049	CAP, E 47-16 GAS<HE>	C385	87-010-553-049	CAP, E 47-16 GAS<HE>
C386	87-010-493-049	CAP, E 0.47-50 GAS<HE>	C386	87-010-493-049	CAP, E 0.47-50 GAS<HE>
C387	87-010-493-049	CAP, E 0.47-50 GAS<HE>	C387	87-010-493-049	CAP, E 0.47-50 GAS<HE>
C388	87-018-209-089	CAP, TC-U 0.1-50 F<HE>	C388	87-018-209-089	CAP, TC-U 0.1-50 F<HE>
C389	87-018-201-089	CAP, TC-U 5600P-16 X<HE>	C389	87-018-201-089	CAP, TC-U 5600P-16 X<HE>
C390	87-018-195-089	CAP, TC-U 1200P-16 X<HE>	C390	87-018-195-089	CAP, TC-U 1200P-16 X<HE>
C391	87-010-067-049	CAP, E 0.1-50 GAS<HE>	C391	87-010-067-049	CAP, E 0.1-50 GAS<HE>
C394	87-018-209-089	CAP, TC-U 0.1-50 F<HE>	C394	87-018-209-089	CAP, TC-U 0.1-50 F<HE>
C395	87-018-130-089	CAP, TC-U 820P-50 B<HE>	C395	87-018-130-089	CAP, TC-U 820P-50 B<HE>
C396	87-018-130-089	CAP, TC-U 820P-50 B<HE>	C396	87-018-130-089	CAP, TC-U 820P-50 B<HE>
C397	87-010-405-089	CAP, E 10-50 SME<HE>	C397	87-010-405-089	CAP, E 10-50 SME<HE>
CSA1	87-008-497-089	CERA LOCK CST7 68MTW	CSA1	87-008-497-089	CERA LOCK CST7 68MTW
D381	87-017-091-089	ZENER, HZSC1<HE>	D381	87-017-091-089	ZENER, HZSC1<HE>
FL1	82-VP1-631-019	FL, FIP 11BY M7	FL1	82-VP1-631-019	FL, FIP 11BY M7
L1	87-003-098-089	COIL, 2.2UH	L1	87-003-098-089	COIL, 2.2UH
L2	87-003-098-089	COIL, 2.2UH	L2	87-003-098-089	COIL, 2.2UH
L5	87-003-102-089	COIL, 100H	L5	87-003-102-089	COIL, 100H
L6	87-005-490-089	COIL, 270UH J FLR50<HE>	L6	87-005-490-089	COIL, 270UH J FLR50<HE>
SW1	87-036-215-089	SW, TACT EQV21404M	SW1	87-036-215-089	SW, TACT EQV21404M
SW2	87-036-215-089	SW, TACT EQV21404M	SW2	87-036-215-089	SW, TACT EQV21404M
SW3	87-036-215-089	SW, TACT EQV21404M	SW3	87-036-215-089	SW, TACT EQV21404M
SW4	87-036-215-089	SW, TACT EQV21404M	SW4	87-036-215-089	SW, TACT EQV21404M
SW5	87-036-215-089	SW, TACT EQV21404M	SW5	87-036-215-089	SW, TACT EQV21404M
SW6	87-036-215-089	SW, TACT EQV21404M	SW6	87-036-215-089	SW, TACT EQV21404M
SW7	87-036-215-089	SW, TACT EQV21404M	SW7	87-036-215-089	SW, TACT EQV21404M
SW12	87-036-215-089	SW, TACT EQV21404M	SW12	87-036-215-089	SW, TACT EQV21404M
SW13	87-036-215-089	SW, TACT EQV21404M	SW13	87-036-215-089	SW, TACT EQV21404M
SW14	87-036-215-089	SW, TACT EQV21404M	SW14	87-036-215-089	SW, TACT EQV21404M
SW15	87-036-215-089	SW, TACT EQV21404M	SW15	87-036-215-089	SW, TACT EQV21404M
SW16	87-036-215-089	SW, TACT EQV21404M	SW16	87-036-215-089	SW, TACT EQV21404M
SW17	87-036-215-089	SW, TACT EQV21404M	SW17	87-036-215-089	SW, TACT EQV21404M
SW18	87-036-215-089	SW, TACT EQV21404M	SW18	87-036-215-089	SW, TACT EQV21404M
SW19	87-036-215-089	SW, TACT EQV21404M	SW19	87-036-215-089	SW, TACT EQV21404M
SW20	87-036-215-089	SW, TACT EQV21404M	SW20	87-036-215-089	SW, TACT EQV21404M
SW21	87-036-215-089	SW, TACT EQV21404M	SW21	87-036-215-089	SW, TACT EQV21404M
SW22	87-036-215-089	SW, TACT EQV21404M	SW22	87-036-215-089	SW, TACT EQV21404M
SW23	87-036-215-089	SW, TACT EQV21404M	SW23	87-036-215-089	SW, TACT EQV21404M
SW24	87-036-215-089	SW, TACT EQV21404M	SW24	87-036-215-089	SW, TACT EQV21404M
SW25	87-036-215-089	SW, TACT EQV21404M	SW25	87-036-215-089	SW, TACT EQV21404M
SW26	87-036-215-089	SW, TACT EQV21404M	SW26	87-036-215-089	SW, TACT EQV21404M
SW27	87-036-215-089	SW, TACT EQV21404M	SW27	87-036-215-089	SW, TACT EQV21404M
VR370	82-VP2-636-019	VR, SL 10K B<HE>	VR370	82-VP2-636-019	VR, SL 10K B<HE>
VR C.B			VR C.B		
C201	87-010-405-089	CAP, E 10-50 SME	C201	87-010-405-089	CAP, E 10-50 SME
C202	87-010-405-089	CAP, E 10-50 SME	C202	87-010-405-089	CAP, E 10-50 SME
C203	87-010-404-089	CAP, E 4.7-50 SME	C203	87-010-404-089	CAP, E 4.7-50 SME
C204	87-010-404-089	CAP, E 4.7-50 SME	C204	87-010-404-089	CAP, E 4.7-50 SME
C205	87-010-404-089	CAP, E 4.7-50 SME	C205	87-010-404-089	CAP, E 4.7-50 SME
C206	87-010-404-089	CAP, E 4.7-50 SME	C206	87-010-404-089	CAP, E 4.7-50 SME
C207	87-018-121-089	CAP, TC-U 150P-50 B<EEZ>	C207	87-018-121-089	CAP, TC-U 150P-50 B<EEZ>

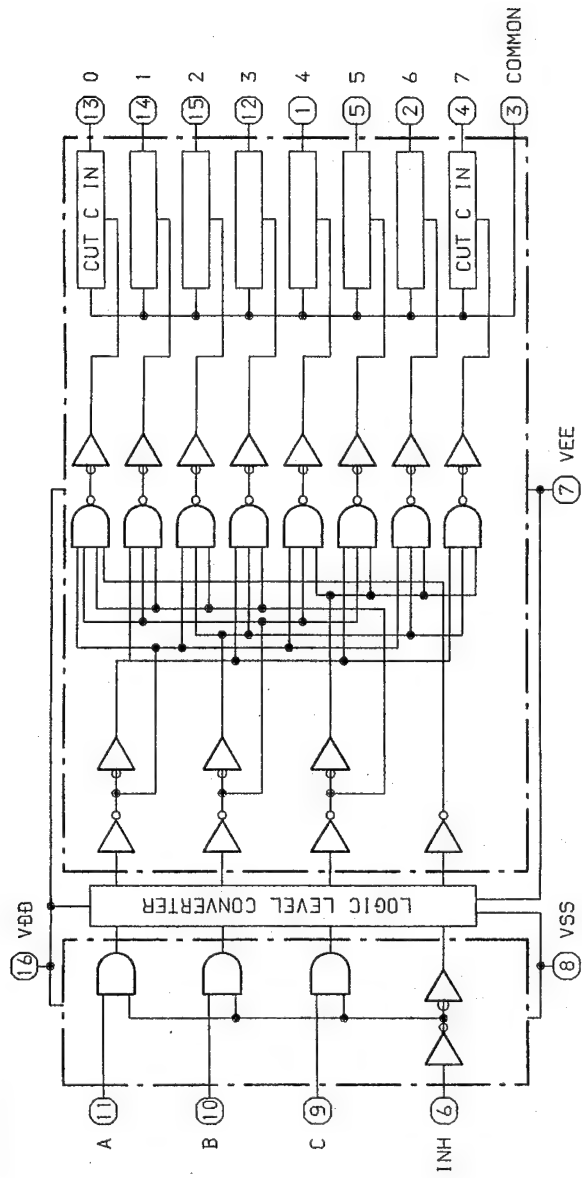
IC, TC4094BP



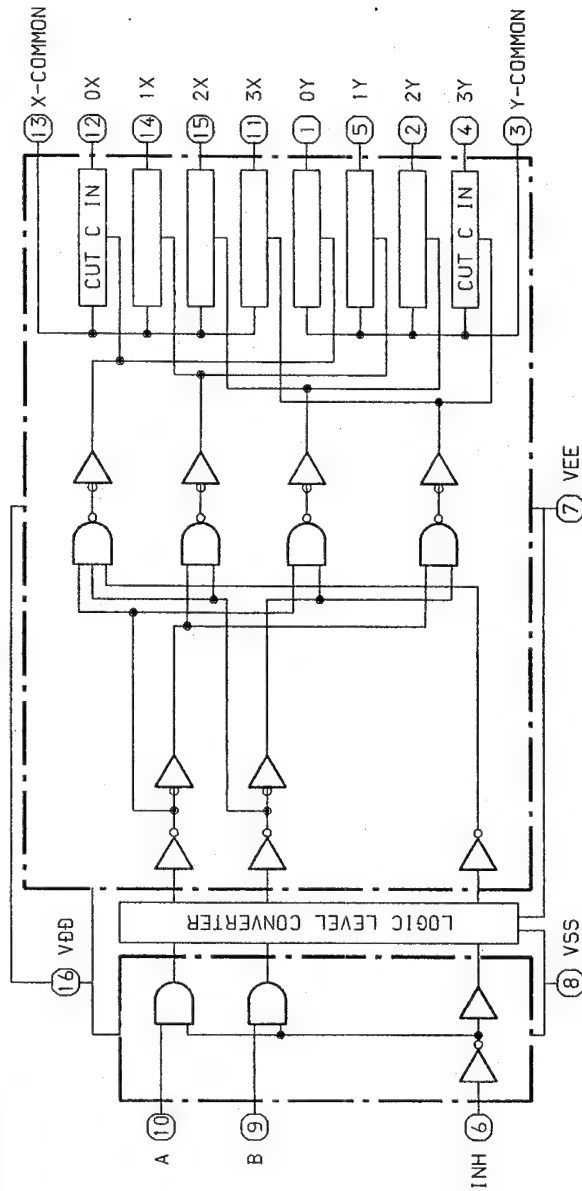
IC, NJU7305L



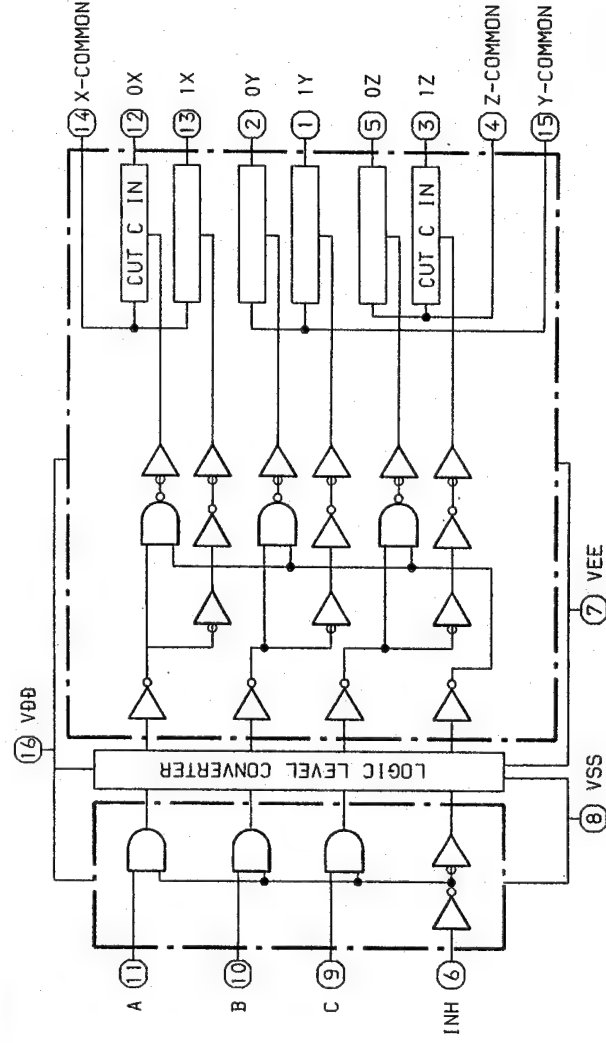
IC, TC4051BP



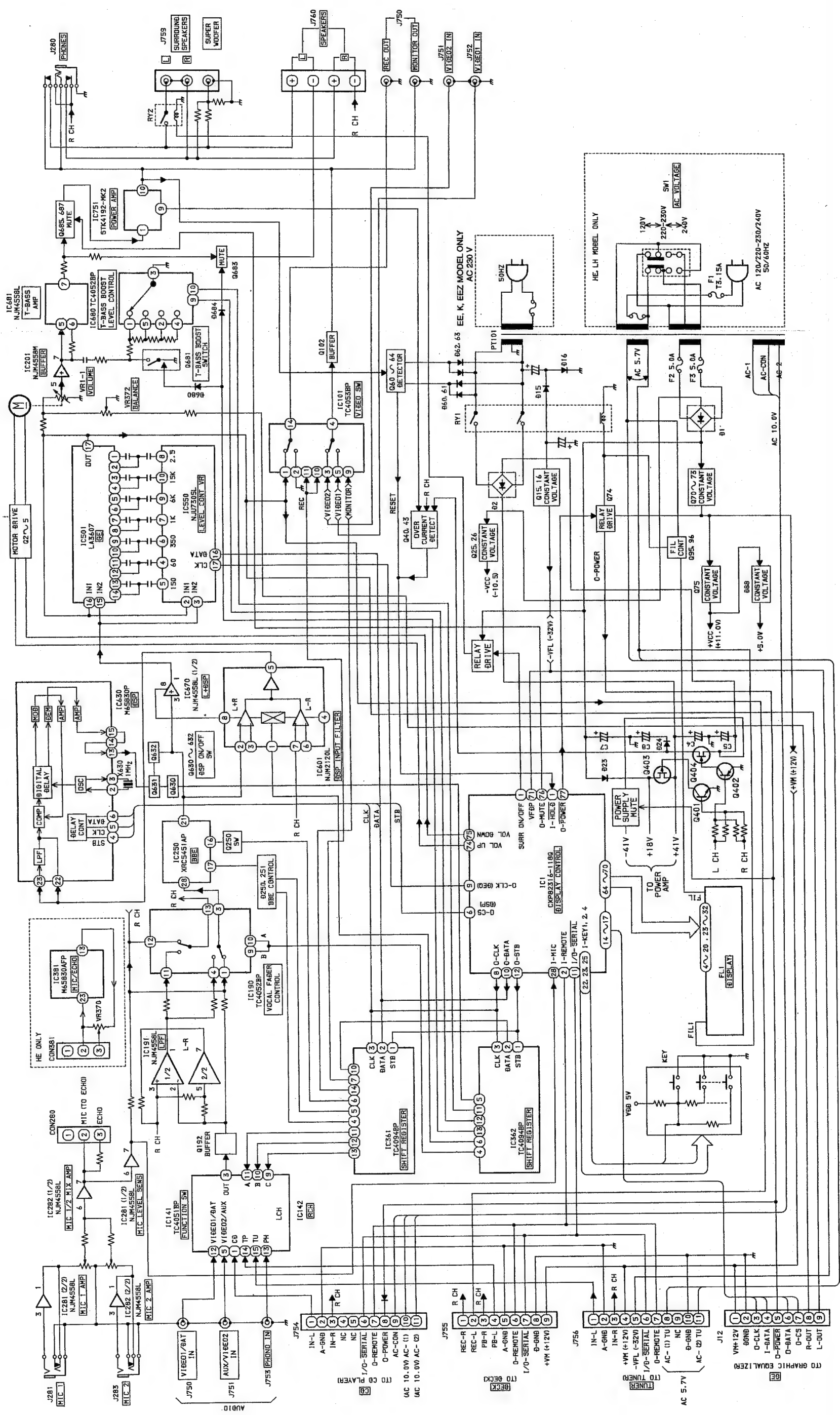
IC, TC4052BP



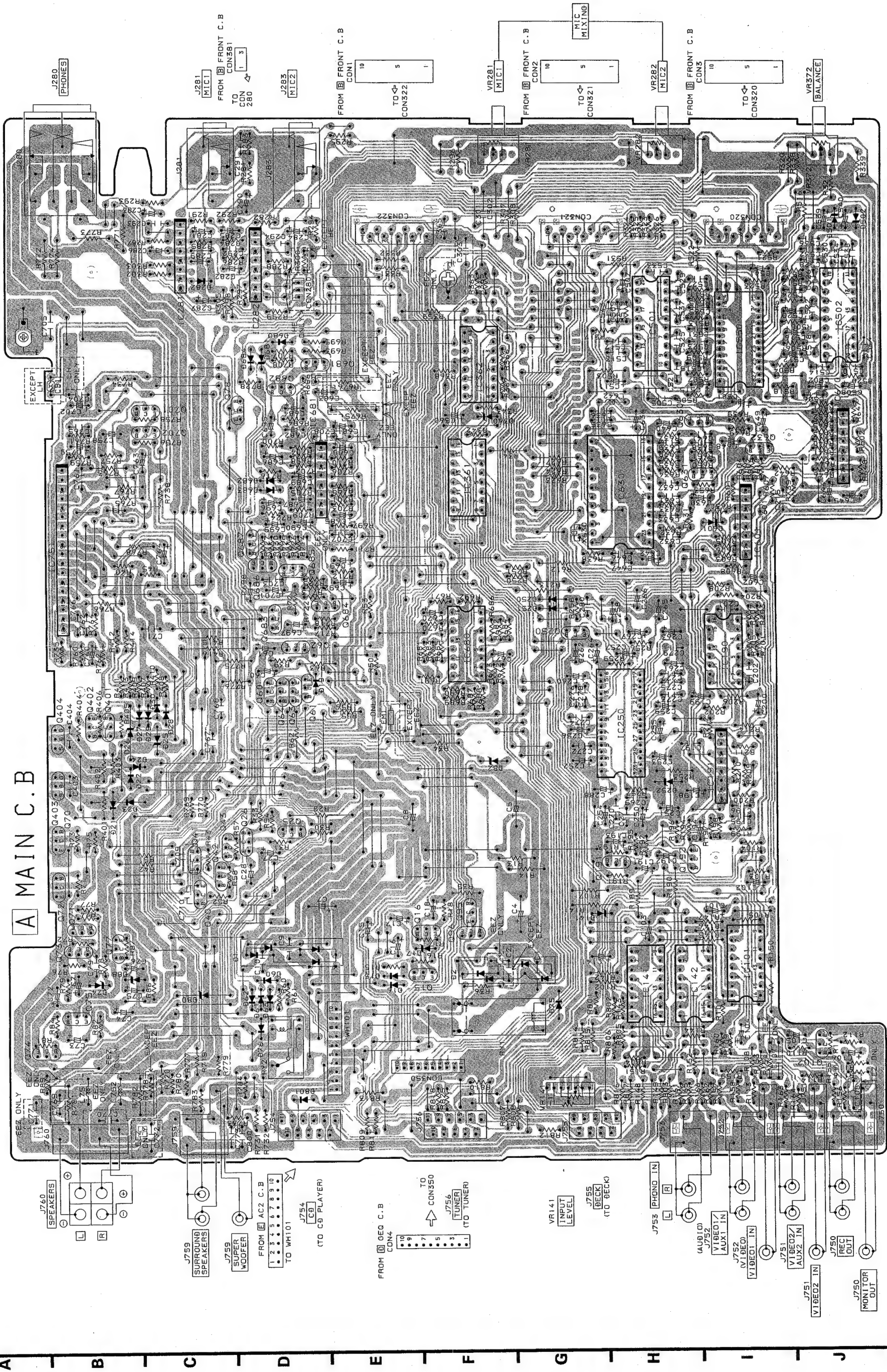
IC, TC4053BP



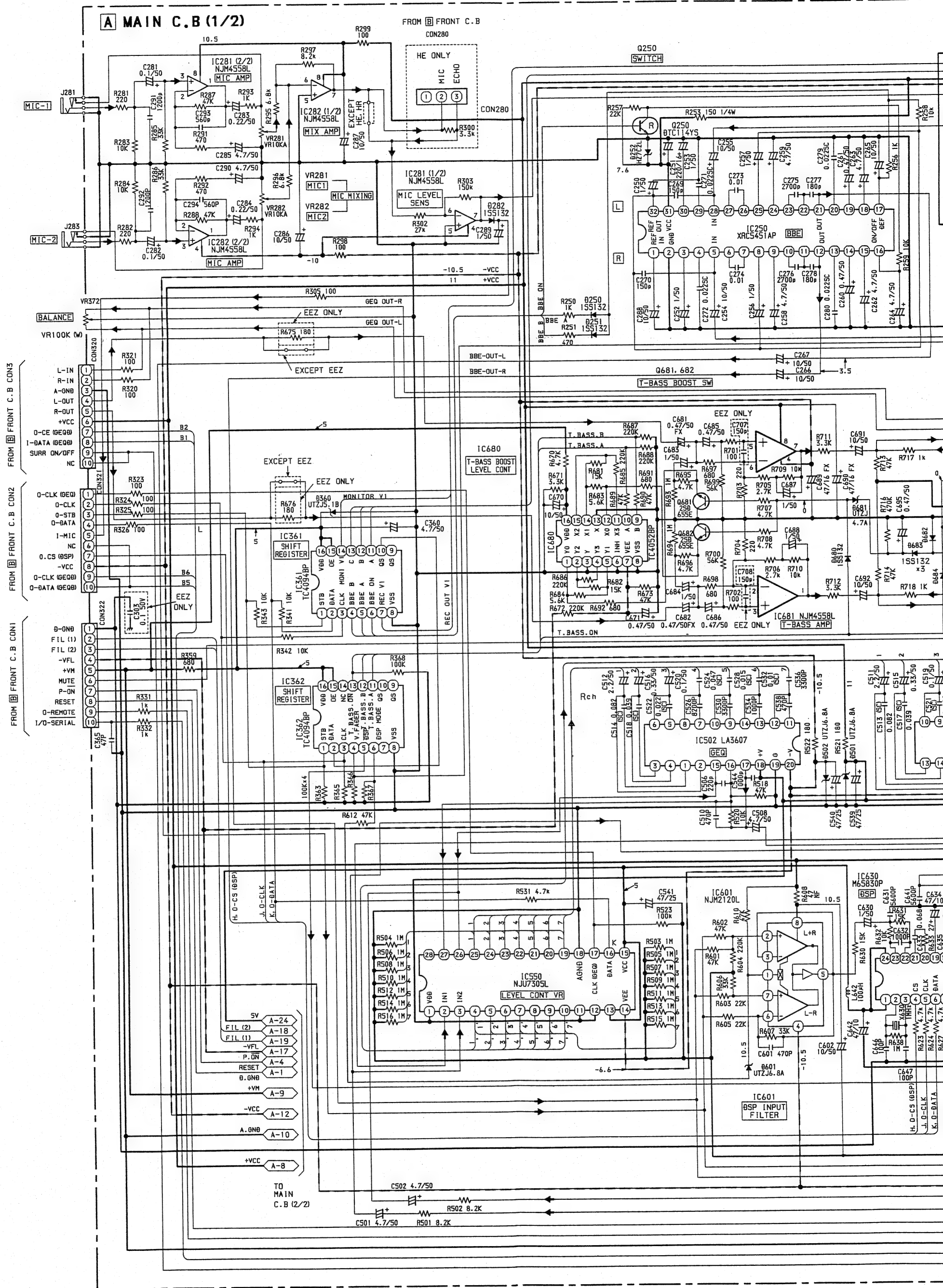
BLOCK DIAGRAM - 1 (MX-Z7300M/8300M)

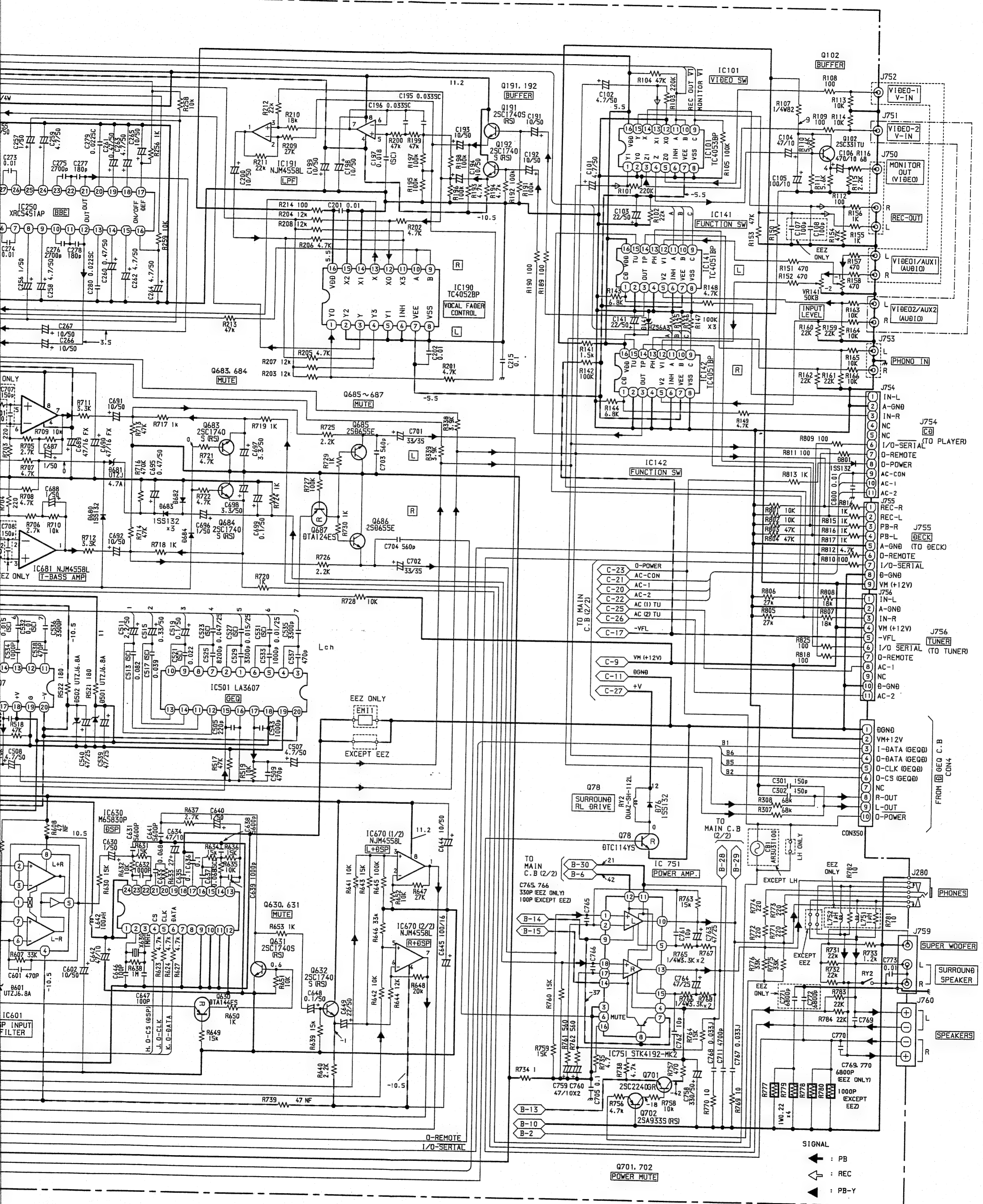
















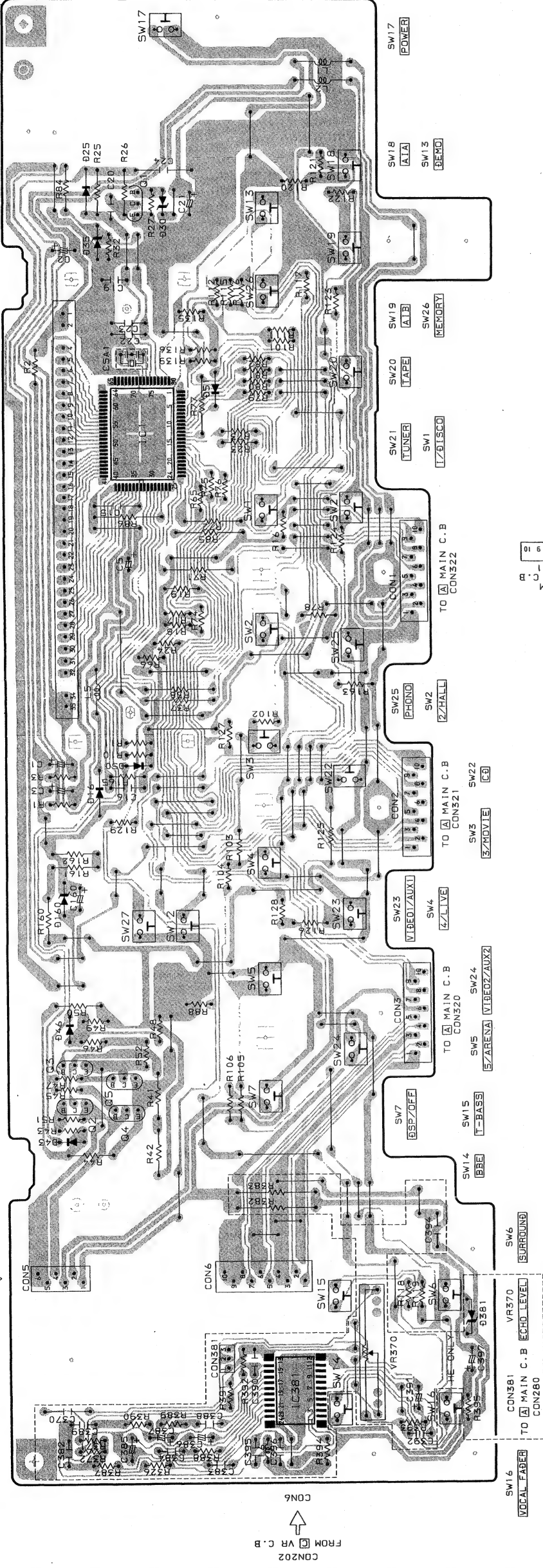
1 2 3 4 5 6 7 8 9 10 11 12 13 14

**B FRONT C.B.**

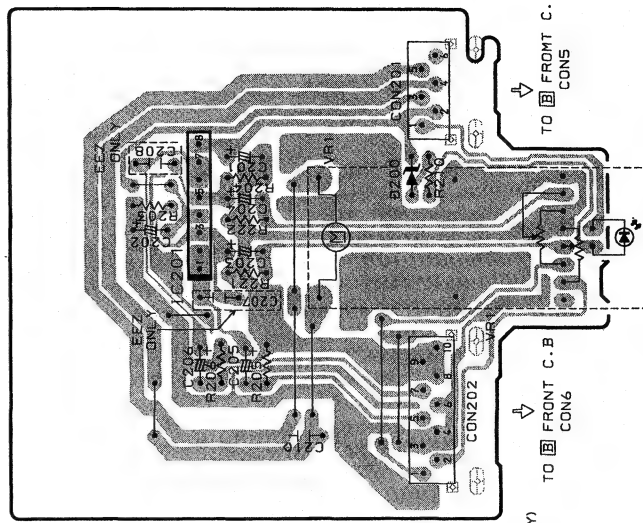
CON201  
FROM VR C.B.

SW27  
BSP DISPLAY  
BSP ON

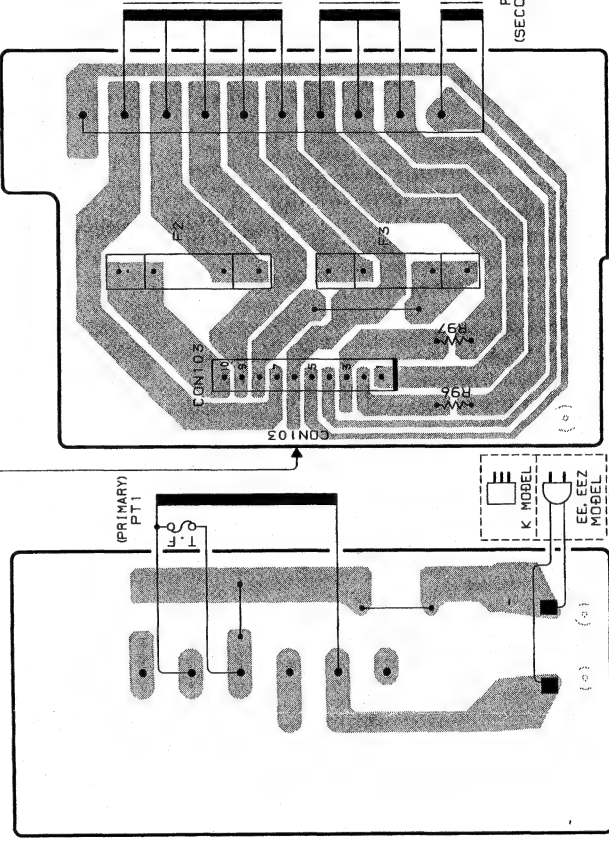
FL1  
DISPLAY



**C VR C.B.**



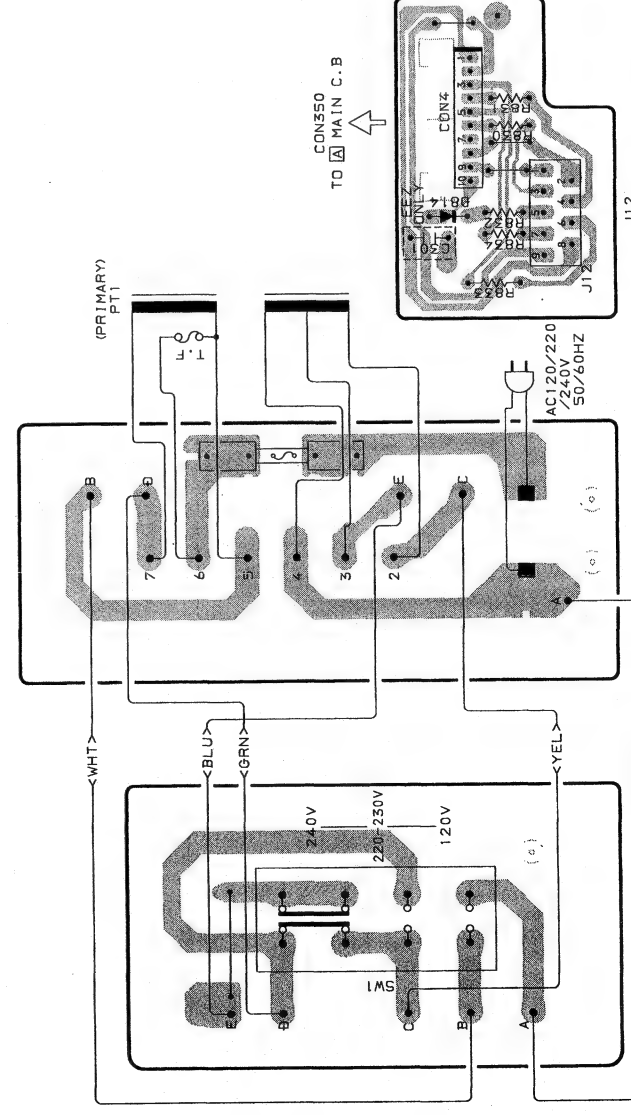
FROM  
MAIN C.B.  
WH101



**E AC2 C.B.**

**F AC1 C.B.**

(EXCEPT HE, LH)



**D GEO C.B.**

(TO GRAPHIC EQUALIZER)

**F AC1 C.B.**

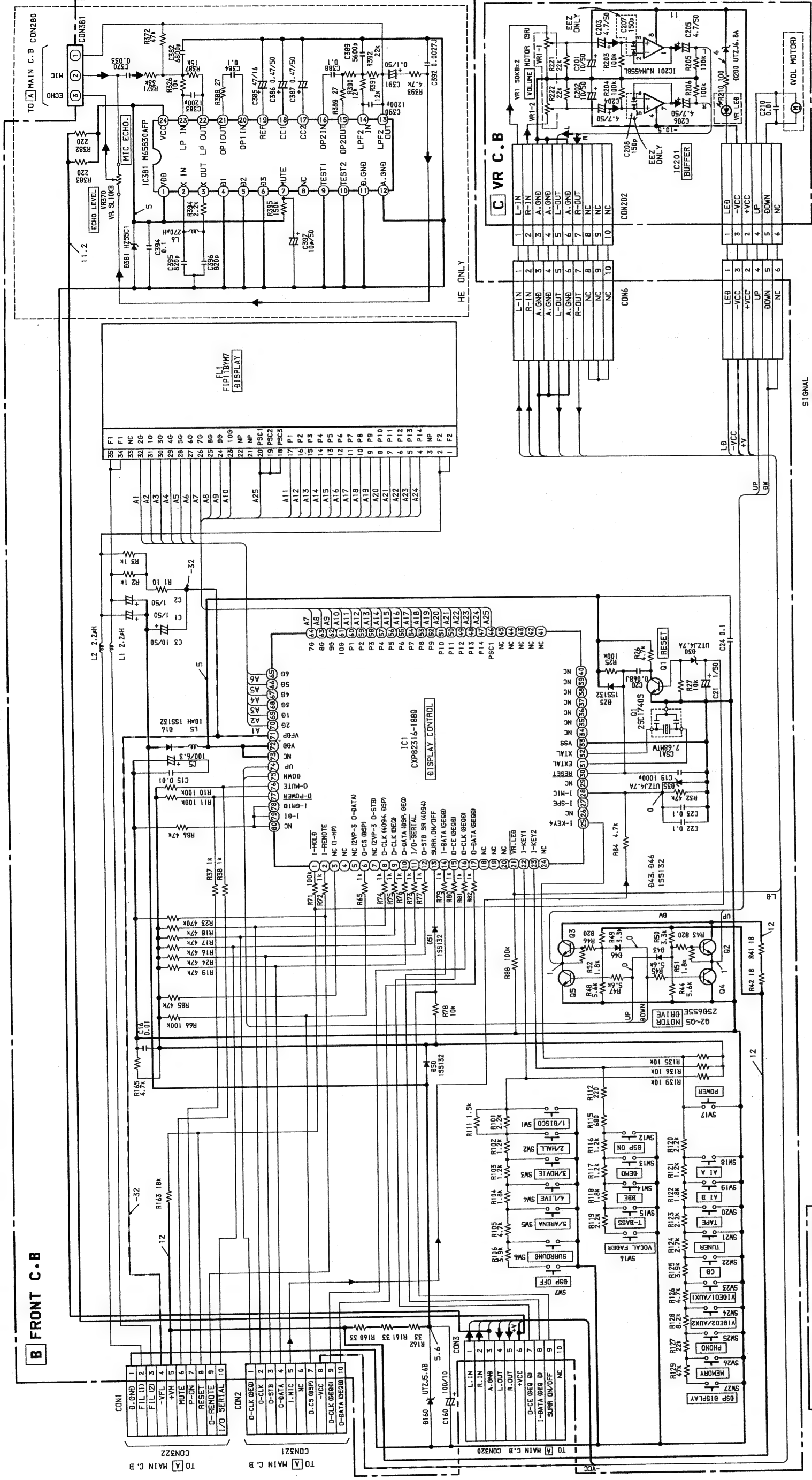
(HE, LH ONLY)

**G AC SW C.B.**

(HE, LH ONLY)



SCHEMATIC DIAGRAM - 3 (MX-Z7300M/8300M)



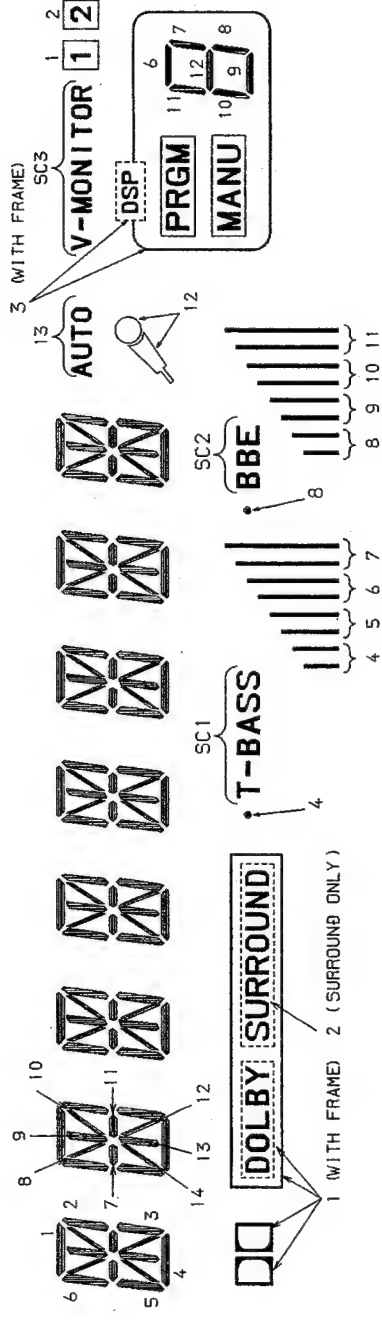
IC DESCRIPTION (MX-Z7300M/8300M)  
IC, CXP82316-188Q

Pin No.	Pin Name	I/O	Description
1	I-HOLD	I	Input "STOP" det.
2	I-REMOTE	I	Remote control input.
3	NC	-	Not used.
4	NC	-	Not used.
5	NC	-	Not used.
6	O-CS	O	Signal to control communications with DSP.
7	NC	-	Not used.
8	O-CLK	O	Signal to control communications with DSP/SR. (Clock)
9	O-CLK	O	Signal to control communications with GEQ IC. (Clock)
10	O-DATA	O	Signal to control communications with DSP/GEQ-IC/SR. (Data)
11	I/O-SERIAL	I/O	Signal to control communications with synchro operation serial data.
12	O-STB SR	O	Signal to control communications with SR. (Strobe)
13	SURR. ON/OFF	O	Surround ON/OFF output.
14	I-DATA	I	Signal to control communications with FL micro processor. (Input data)
15	O-CE	I/O	Signal to control communications with FL micro processor. (Chip select)
16	O-CLK	O	Signal to control communications with FL micro processor. (Clock)
17	O-DATA	O	Signal to control communications with FL micro processor. (Output data)
18	NC	-	Not used.
19	NC	-	Not used.
20	NC	-	Not used.
21	VR.LED	-	Output a volume LED signal.
22	I-KEY1	I	A/D pin for key input.
23	I-KEY2		
24	NC	-	Not used.
25	I-KEY4	I	A/D pin for key input.
26	NC	-	Not used.
27	I-SPE	-	Not used.
28	I-MIC	I	A/D pin for microphone level input.
29	NC	-	Not used.
30	RESET	I / O	System reset input/output.
31	EXTAL	I	System clock input.
32	XTAL	O	System clock output.
33	VSS	-	GND.
34	NC	-	Not used.
35	NC	-	Not used.
36	NC	-	Not used.
37	NC	-	Not used.
38	NC	-	Not used.
39	NC	-	Not used.
40	NC	-	Not used.

Pin No.	Pin Name	I/O	Description
41	NC	-	Not used.
42	NC	-	Not used.
43	NC	-	Not used.
44	NC	-	Not used.
45	NC	-	Not used.
46	PSC1	O	FL display (SCI - 3 light output).
47	P14	O	Segment output 13.
48	P13	O	Segment output 12.
49	P12	O	Segment output 11.
50	P11	O	Segment output 10.
51	P10	O	Segment output 9.
52	P9	O	Segment output 8.
53	P8	O	Segment output 7.
54	P7	O	Segment output 6.
55	P6	O	Segment output 5.
56	P5	O	Segment output 4.
57	P4	O	Segment output 3.
58	P3	O	Segment output 2.
59	P2	O	Segment output 1.
60	P1	O	Segment output 0.
61	10G	O	Timing output 10.
62	9G	O	Timing output 9.
63	8G	O	Timing output 8.
64	7G	O	Timing output 7.
65	6G	O	Timing output 6.
66	5G	O	Timing output 5.
67	4G	O	Timing output 4.
68	3G	O	Timing output 3.
69	1G	O	Timing output 1.
70	2G	O	Timing output 2.
71	VFDP	-	Power supply for FDP.
72	VDD	-	Power supply.
73	NC	-	Not used.
74	UP	O	Volume control output. (Volume up)
75	DOWN	O	Volume control output. (Volume down)
76	O-MUTE	O	Multing control output.
77	O-POWER	O	Power output.
78	I-GRID	-	Not used.
79	I-GI	-	Not used.
80	NC	-	Not used.

# FL DISPLAY ( MX-Z7300M/8300M )

FL, FIP11BYM7



FIP11BYM7

TERMINAL CONNECTION

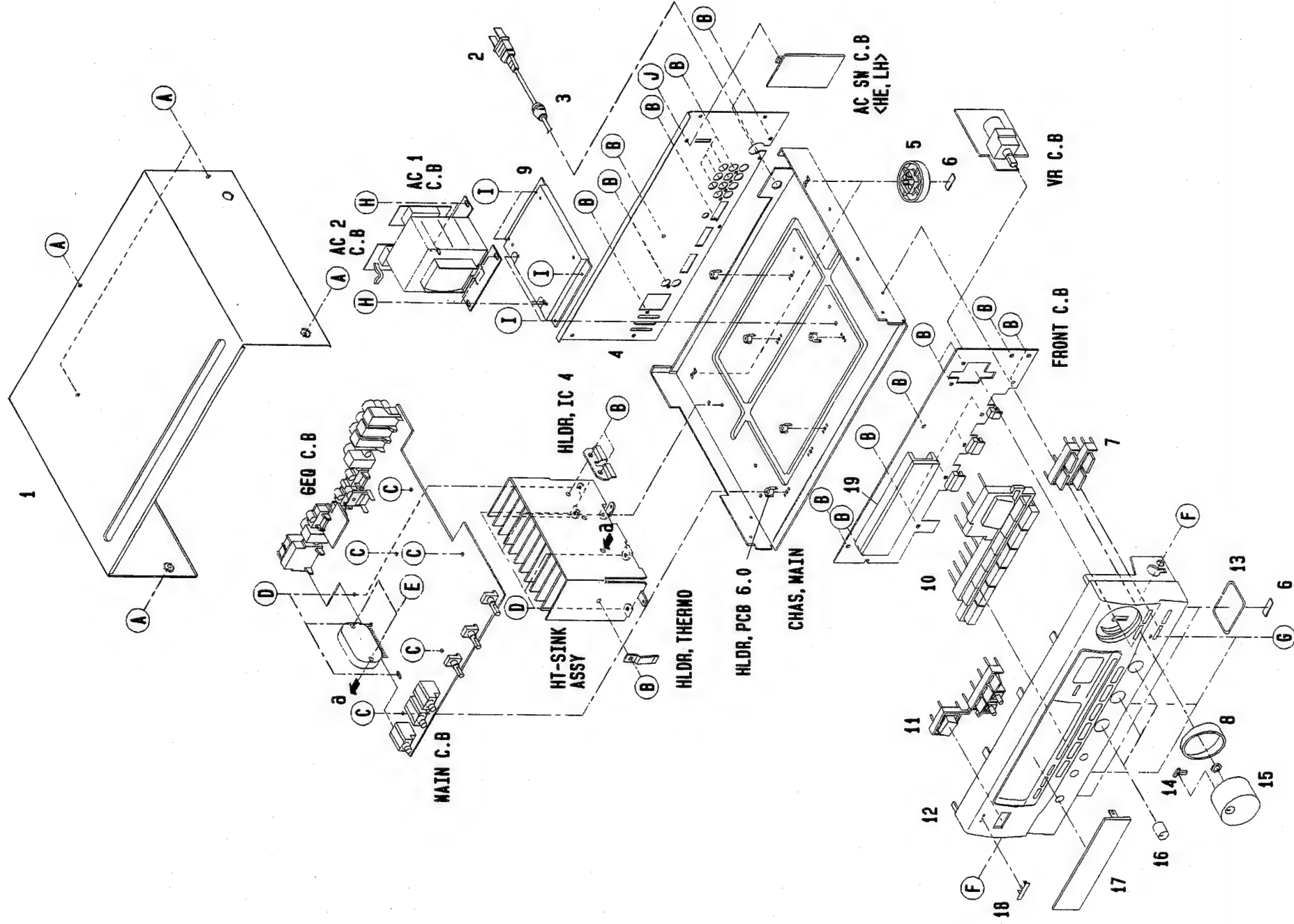
TERMINAL NO. ELECTRODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
F2 F2 NP	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
TERMINAL NO. ELECTRODE	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
	P	P	NP	NP	NP	10G	9G	8G	7G	6G	5G	4G	3G	1G	2G	NP	F1	F1
	SC2	SC1																

NOTES F: FILAMENT NP: NO PIN

G: GRID

P: ANODE

MECHANICAL EXPLODED VIEW 1 / 1 (MX-Z7300M/8300M)





# MECHANICAL PARTS LIST 1 / 1 (MX-Z7300M/8300M)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-VP2-011-019		CAB,STEEL
△	2 87-050-100-019		AC CORD ASSY K3P<8300K>
△	2 87-050-034-019		AC CORD ASSY,E<EXCEPT 8300K>
3	87-085-185-010		BUSHING,AC CORD E
4	85-VP2-015-019		PANEL,REAR EEBN<EE>
4	85-VP2-004-019		PANEL,REAR EZBN<EEZ>
4	85-VP2-002-019		PANEL,REAR HEJBN<HE>
4	85-VP2-012-019		PANEL,REAR KEN 8300<8300K>
4	85-VP2-008-019		PANEL,REAR LHBN<LH>
5	81-VX1-012-019		FOOT, REAR
6	82-VM2-211-019		FELT,20-7.5-2
7	85-VP1-005-019		KEY,BBE
8	85-VP1-007-019		RING,VOL
9	81-VP1-216-110		HLDR,PT
10	85-VP2-006-019		KEY,FUN
11	85-VP2-005-019		KEY,POWER
12	85-VP2-003-019		CAB,FR E<EE,EEZ>
12	85-VP2-001-019		CAB,FR H<HE>
12	85-VP2-011-019		CAB,FR K 8300<8300K>
12	85-VP2-007-019		CAB,FR LH<LH>
13	84-VM5-013-010		RING,FOOT
14	82-NE6-016-019		IND,MAIN (VOL)
15	85-VP1-008-019		KNOB,VOL
16	83-NF6-020-019		KNOB,MIC
17	85-VP1-006-019		WINDOW,AMP
18	82-NE8-032-019		BADGE AIWA 27.5
19	82-MA2-203-010		GUIDE,FL 2
A	87-067-641-019		UTT2+3-8 W/O SLOT BLK
B	87-067-660-019		BVT2+3-8W/O SLOT BLK
C	87-067-758-019		BVT2+3-12(W/O SLOT)
D	87-067-584-019		BVT2+3-6 W/O SLOT
E	87-067-581-019		BVT2+3-15 W/O SLOT
F	87-591-094-419		QIT + 3 - 6 GOLD
G	87-067-716-019		BVTT+3-6 BLK
H	87-067-975-019		S-SCREW IT+4-8
I	87-067-585-019		BVTT +4-6
J	80-VP2-202-019		SPECIAL SCREW VT2BLK<HE,LH>

MODEL NO.

# FX-WZ7300

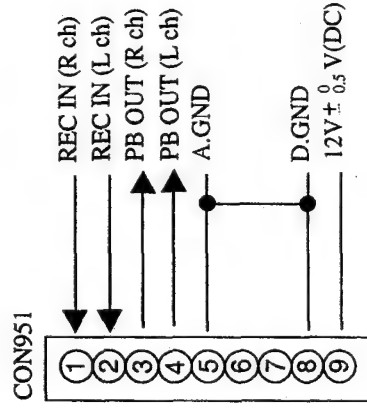
## CAUTIONS WHEN SERVICING (FX-WZ7300)

FX-WZ7300 do not have a power supply circuit. Power is supplied to it through a 9-pin flat cable and the signal inputs/outputs are also performed through this cable.

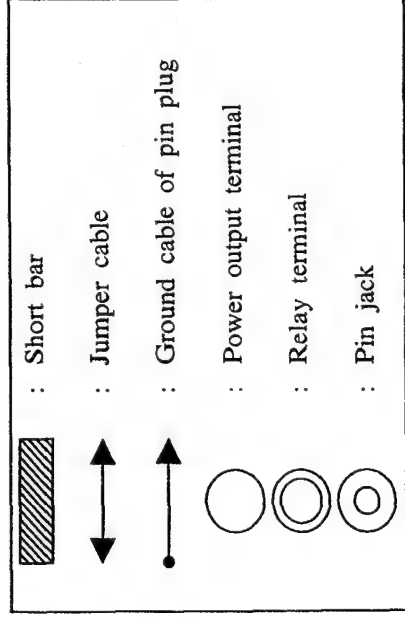
When servicing the FX-WZ7300 connect it to the MX-Z7300 so power is supplied to the FX-WZ7300. If the MX-Z7300 is not available, follow the procedure below.

[ When servicing the unassembled FX-WZ7300 ]

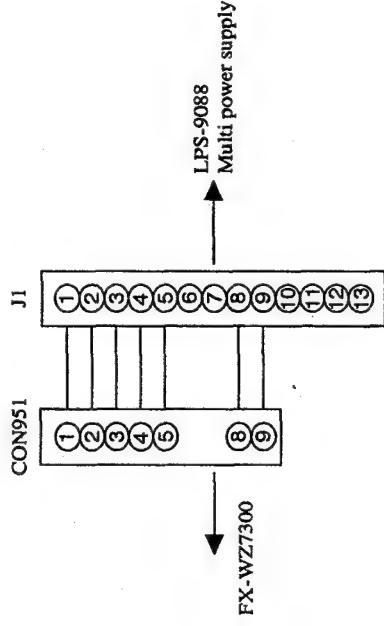
1. Supply the following voltage to each terminal from the external power supply.



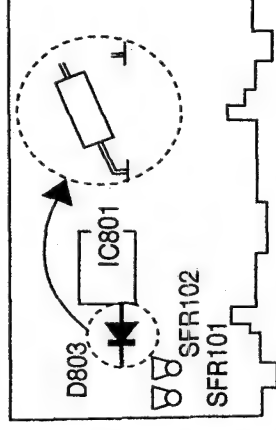
Connect a multi - conversion harness.



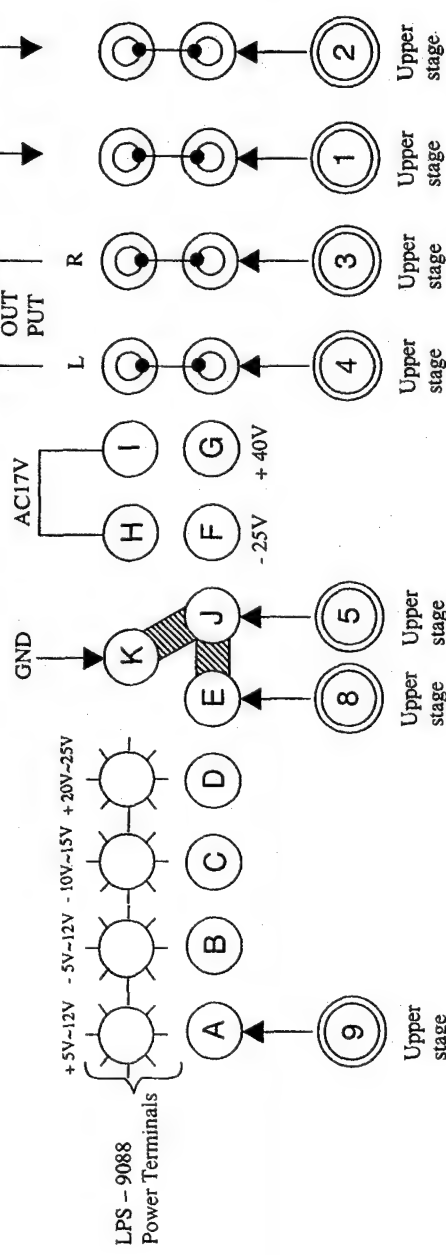
2. Multi Power Connection diagram (LPS-9088)
  - Connect the multi-conversion harness for the D5 type to I1.



- After connecting the multi-conversion harness, connect the leg of the diode D803 on the pattern of the main C.B., and then turn the multi-power supply on.



- The diode D803 itself is above the pattern with its one leg is cut as shown.



## ELECTRICAL MAIN PARTS LIST (FX-WZ7300)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
<b>IC</b>							
	87-017-022-089		IC, NJM2068M-D(T1)	C211	87-010-404-089		CAP, E 4.7-50 SME
	87-001-224-089		IC, NJU4066BM	C212	87-010-404-089		CAP, E 4.7-50 SME
	87-020-730-089		IC, TC4069 UBF	C213	87-010-101-089		CAP, E 220-16 SME
	87-001-607-089		IC, NJM4558M	C214	87-010-197-089		C-CAP, S 0.01-25 B
	87-017-023-089		IC, NJU4052BM	C215	87-010-197-089		C-CAP, S 0.01-25 B
	87-001-874-019		IC, HA12134A	C251	87-010-186-089		C-CAP, S 4700P-50 B
	89-VW2-631-010		IC, LG66406-4B19	C252	87-010-149-089		C-CAP, S 5P-50 CH
	87-017-374-019		IC, TC4094BP	C253	87-010-182-089		C-CAP, S 2200P-50 B
	87-020-454-010		IC, DM6851	C254	87-010-596-089		C-CAP, S 0.047-16 RK
				C255	87-012-154-089		C-CAP, S 150P-50 CH
<b>TRANSISTOR</b>							
	87-026-223-089		C-TR, DTC143TK	C256	87-010-374-089		CAP, E 47-10
	89-327-125-089		C-TR, 2SC2712GR	C257	87-010-401-089		CAP, E 1-50 SME
	89-113-625-089		C-TR, 2SA 1362 GR(TAPG)	C258	87-010-149-089		C-CAP, S 5P-50 CH
	89-320-011-089		TR, 2SC2001K	C259	87-010-178-089		C-CAP, S 1000P-50 B
	89-109-521-089		TR, 2SA952K	C301	87-010-322-089		C-CAP, S 100P-50 CH
	89-503-685-089		C-FET, 2SK368GR	C302	87-010-322-089		C-CAP, S 100P-50 CH
	89-333-266-089		C-TR, 2SC3326B	C303	87-010-183-089		C-CAP, S 2700P-50 B
	87-026-227-089		C-TR, DTA114EK	C304	87-010-183-089		C-CAP, S 2700P-50 B
	89-318-155-089		TR, 2SC1815GR	C305	87-010-404-089		CAP, E 4.7-50 SME
	89-112-965-089		TR, 2SA1296GR	C306	87-010-404-089		CAP, E 4.7-50 SME
	87-026-210-089		C-TR, DTC144EK T147	C333	87-012-157-089		C-CAP, S 330P-50 CH
	87-026-580-089		C-TR, DTA123JK	C324	87-012-157-089		C-CAP, S 330P-50 CH
	87-026-218-089		TR, DTC144ES	C401	87-010-178-089		C-CAP, S 220P CH
	87-026-214-089		TR, DTA114YS	C402	87-012-156-089		C-CAP, S 220P CH
	87-026-463-080		TR, 2SA933S(RS)	C403	87-014-071-089		CAP, PP 3900P-100 J
<b>DIODE</b>							
	87-002-564-089		DIODE, 1SS133RA	C405	87-010-221-089		CAP, E 470-10
	87-070-108-019		LED SLF301C-37	C409	87-010-402-089		CAP, E 2.2-50 SME
	87-020-330-089		C-DIODE, DAP202K	C451	87-010-178-089		C-CAP, S 1000P-50 B
	87-020-584-089		C-ZENER, 02CZ5.6Y	C453	87-010-322-089		C-CAP, S 100P-50 CH
	87-020-123-059		DIODE, DS446 RA V-DT3	C454	87-010-322-089		C-CAP, S 100P-50 CH
	87-001-290-059		ZENER, HZS6B1L RA	C501	87-012-140-089		C-CAP, S 470P-50 CH
	87-017-024-089		C-DIODE, DA204K	C502	87-012-140-089		C-CAP, S 470P-50 CH
	87-001-559-059		DIODE, 1SS131 RA	C503	87-010-182-089		C-CAP, S 2200P-50 B
	87-001-731-059		ZENER, HZS6C2L RA	C504	87-010-182-089		C-CAP, S 2200P-50 B
	87-020-331-089		C-DIODE, DAN202K	C505	87-010-404-089		CAP, E 4.7-50 SME
	81-DS2-639-080		LED, SEL-1321G TP7	C506	87-010-404-089		CAP, E 4.7-50 SME
	87-017-295-080		LED, SEL 1921D TP7	C511	87-010-545-089		CAP, E 0.22-50 SME
	81-DS2-637-080		LED, SEL-1121R TP7	C512	87-010-545-089		CAP, E 0.22-50 SME
				C513	87-012-154-089		C-CAP, S 150P-50 CH
				C514	87-012-154-089		C-CAP, S 150P-50 CH
				C517	87-010-371-089		CAP, E 470-6.3
				C518	87-010-401-089		CAP, E 1-50 SME
				C519	87-010-404-089		CAP, E 4.7-50 SME
				C520	87-010-404-089		CAP, E 4.7-50 SME
				C601	87-010-404-089		CAP, E 4.7-50 SME
<b>MAIN C.B</b>							
	82-VW2-624-019		F-CABLE 3P-2.0	C602	87-010-381-089		CAP, E 330-16 SME
C101	87-012-158-089		C-CAP, S 390P-50 CH	C603	87-010-101-089		CAP, E 220-16 SME
C102	87-012-158-089		C-CAP, S 390P-50 CH	C604	87-010-237-089		CAP, E 1000-16
C103	87-010-318-089		C-CAP, S 47P-50 CH	C605	87-010-198-089		C-CAP, S 0.022-25 B
C104	87-010-318-089		C-CAP, S 47P-50 CH	C606	87-010-546-089		CAP, E 0.33-50 SME
C105	87-010-426-089		C-CAP, S 0.012-25 B	C607	87-010-371-089		CAP, E 470-6.3
C106	87-010-426-089		C-CAP, S 0.012-25 B	C608	87-010-198-089		C-CAP, S 0.022-25 B
C109	87-012-154-089		C-CAP, S 150P-50 CH	C609	87-015-822-089		C-CAP, 0.022
C110	87-012-154-089		C-CAP, S 150P-50 CH	C611	87-010-196-089		C-CAP, S 0.1-25 F
C111	87-010-404-089		CAP, E 4.7-50 SME	C801	87-010-404-089		CAP, E 4.7-50 SME
C112	87-010-404-089		CAP, E 4.7-50 SME	C951	87-012-140-089		C-CAP, S 470P-50 CH
C113	87-010-404-089		CAP, E 4.7-50 SME	C952	87-010-186-089		C-CAP, S 4700P-50 B
C114	87-010-404-089		CAP, E 4.7-50 SME	C9801	89-MX1-704-089		CERA LOCK(MU)3.9MHZ
C115	87-010-101-089		CAP, E 220-16 SME	CON951	82-VW2-623-019		CORD, FG 9P 750
C116	87-010-197-089		C-CAP, S 0.01-25 B	L301	87-005-525-089		COIL, 22MH-J
C117	87-010-197-089		C-CAP, S 0.01-25 B	L302	87-005-525-089		COIL, 22MH-J
C201	87-012-157-089		C-CAP, S 330P-50 CH	L303	87-003-131-089		COIL, 10MH J
C202	87-012-157-089		C-CAP, S 330P-50 CH	L304	87-003-131-089		COIL, 10MH J
C203	87-010-318-089		C-CAP, S 47P-50 CH	L305	87-003-123-089		COIL, 2.2MH J
C204	87-010-318-089		C-CAP, S 47P-50 CH	L306	87-003-123-089		COIL, 2.2MH J
C205	87-010-426-089		C-CAP, S 0.012-25 B	L401	80-VW1-605-119		COIL OSC BIAS 108K
C206	87-010-426-089		C-CAP, S 0.012-25 B	L601	87-005-474-089		COIL, 12UH J FLR50
C207	87-012-156-089		C-CAP, S 220P CH	R408	87-025-471-089		RES NF 4.7-1/4WJ
				SFR101	87-024-349-089		SFR, 1K DIA6 H
				SFR102	87-024-349-089		SFR, 1K DIA6 H

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
----------	----------	-----------	-------------	----------	----------	-----------	-------------

SFR201	87-024-349-089		SFR, 1K DIA6 H				
SFR202	87-024-349-089		SFR, 1K DIA6 H				
SFR301	87-024-353-089		SFR, 10K DIA6 H				
SFR302	87-024-353-089		SFR, 10K DIA6 H				
SFR401	87-024-356-089		SFR, 47K DIA6 H				
SFR402	87-024-356-089		SFR, 47K DIA6 H				

FRONT-1 C.B

C901	87-010-405-089		CAP, E 10-50 SME				
C902	87-018-134-089		CAP, TC-U 0.01-16 Y				
S901	87-036-215-089		SW, TACT EVQ21404M				
S902	87-036-215-089		SW, TACT EVQ21404M				
S903	87-036-215-089		SW, TACT EVQ21404M				
S904	87-036-215-089		SW, TACT EVQ21404M				
S909	87-036-215-089		SW, TACT EVQ21404M				
S912	87-036-215-089		SW, TACT EVQ21404M				
S913	87-036-215-089		SW, TACT EVQ21404M				
S914	87-036-215-089		SW, TACT EVQ21404M				
S915	87-036-215-089		SW, TACT EVQ21404M				
S916	87-036-215-089		SW, TACT EVQ21404M				
S917	87-036-215-089		SW, TACT EVQ21404M				

FRONT-2 C.B

S905	87-036-215-089		SW, TACT EVQ21404M				
S906	87-036-215-089		SW, TACT EVQ21404M				
S907	87-036-215-089		SW, TACT EVQ21404M				
S908	87-036-215-089		SW, TACT EVQ21404M				

DECK-1 C.B

SFR1	87-024-581-010		SFR, 3.3K DIA 6H KOA				
SFR2	87-024-331-019		SFR, 5.0K DIA 6H KOH				
SOL1	82-2M1-618-010		SOL ASSY, 27				
SW4	87-036-378-080		SW, PUSH 1-1-1 SH2				
SW5	87-036-378-080		SW, PUSH 1-1-1 SH2				
SW6	87-036-378-080		SW, PUSH 1-1-1 SH2				

DECK-2 C.B

SFR1	87-024-581-010		SFR, 3.3K DIA 6H KOA				
SFR2	87-024-331-019		SFR, 5.0K DIA 6H KOH				
SOL2	82-2M1-618-310		SOL ASSY, 27				
SW1	87-036-110-010		SW, PUSH SPPB 62				
SW2	87-036-110-010		SW, PUSH SPPB 62				
SW3	87-036-110-010		SW, PUSH SPPB 62				
SW4	87-036-110-010		SW, PUSH SPPB 62				
SW5	87-036-110-010		SW, PUSH SPPB 62				
SW6	87-036-110-010		SW, PUSH SPPB 62				

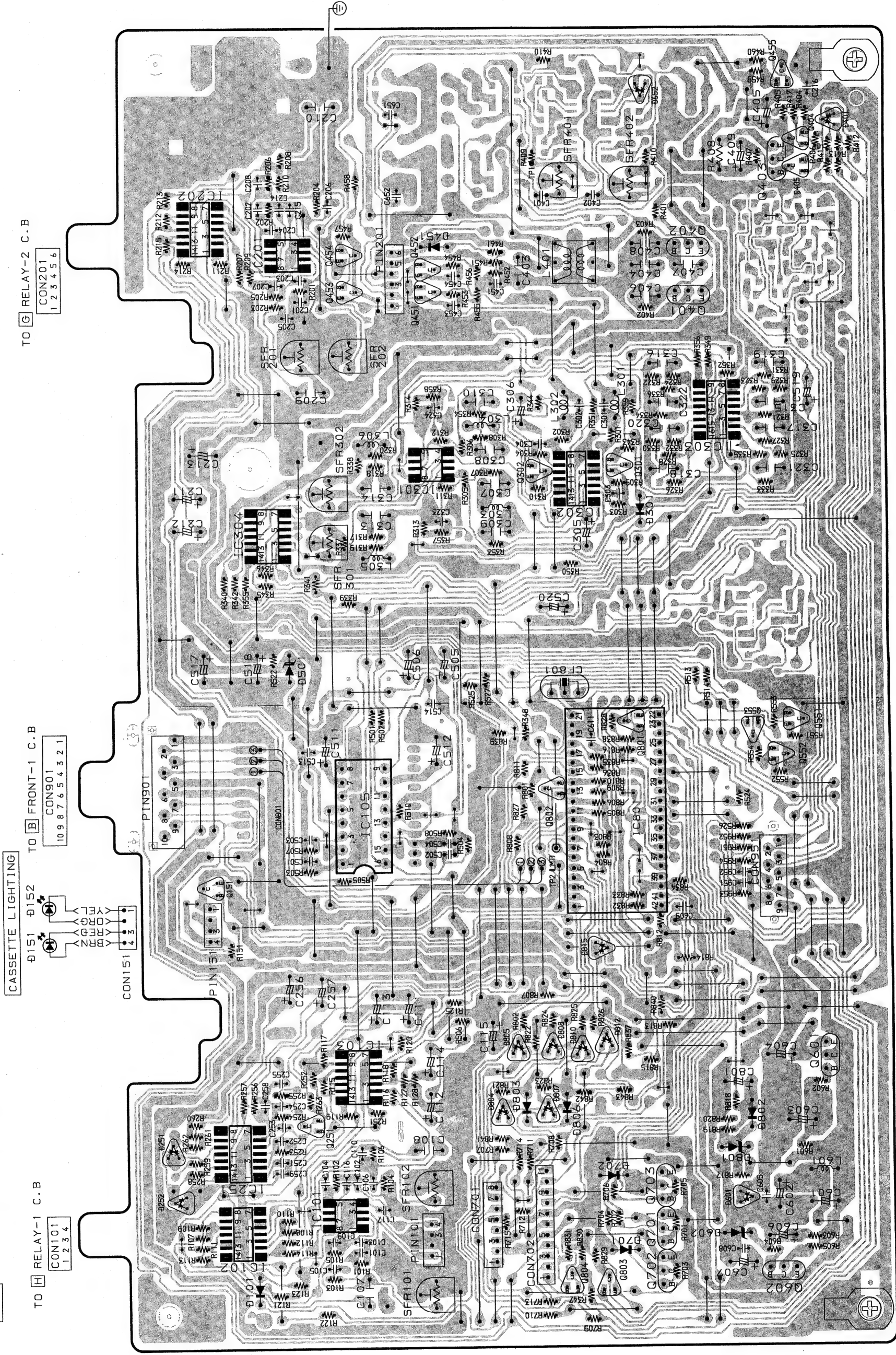
RELAY-1 C.B

RELAY-2 C.B





# A MAIN C.B.



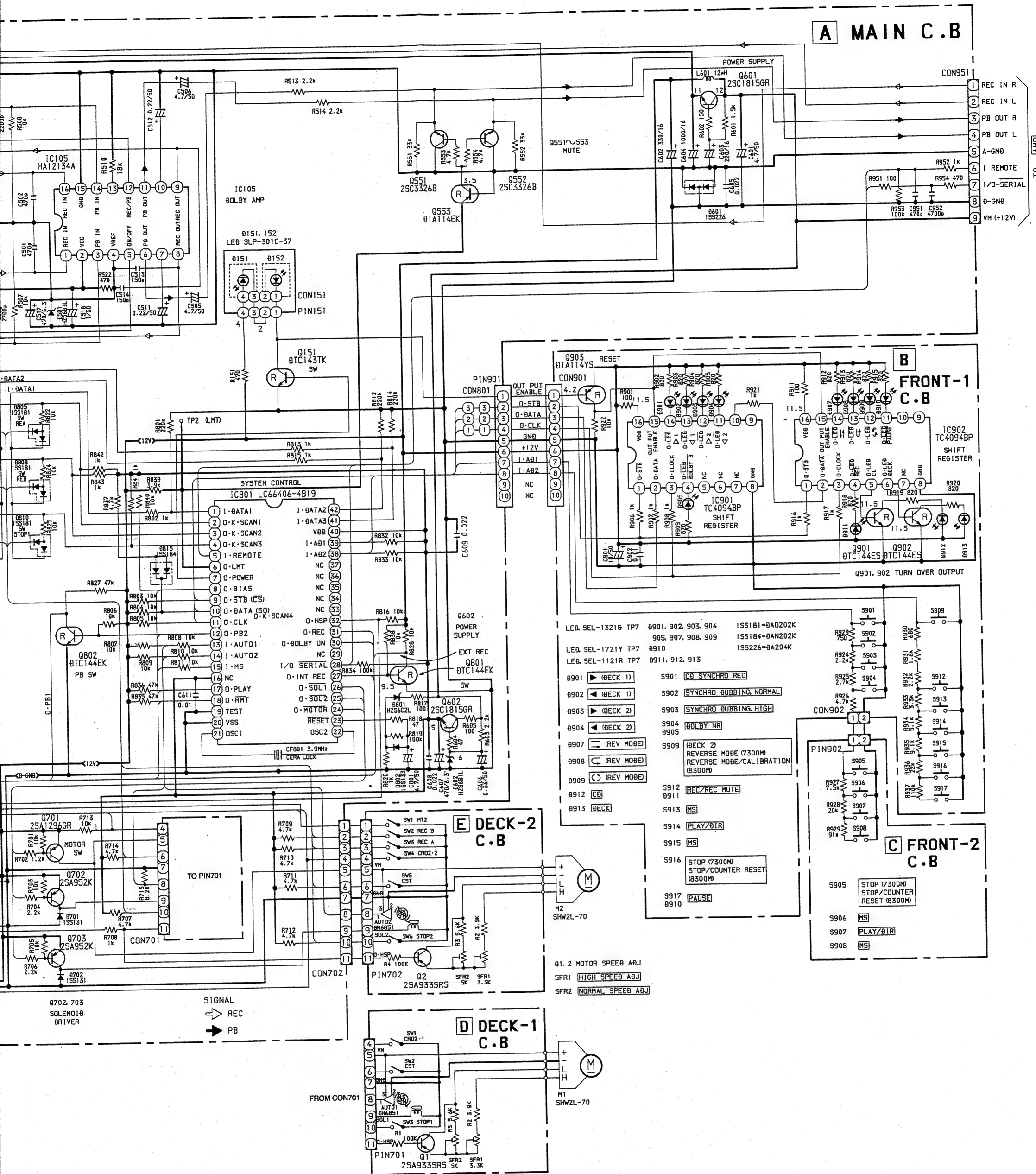


**F**



RPEH  
(DECK2)

SIGNAL  
→ REC  
→ PB







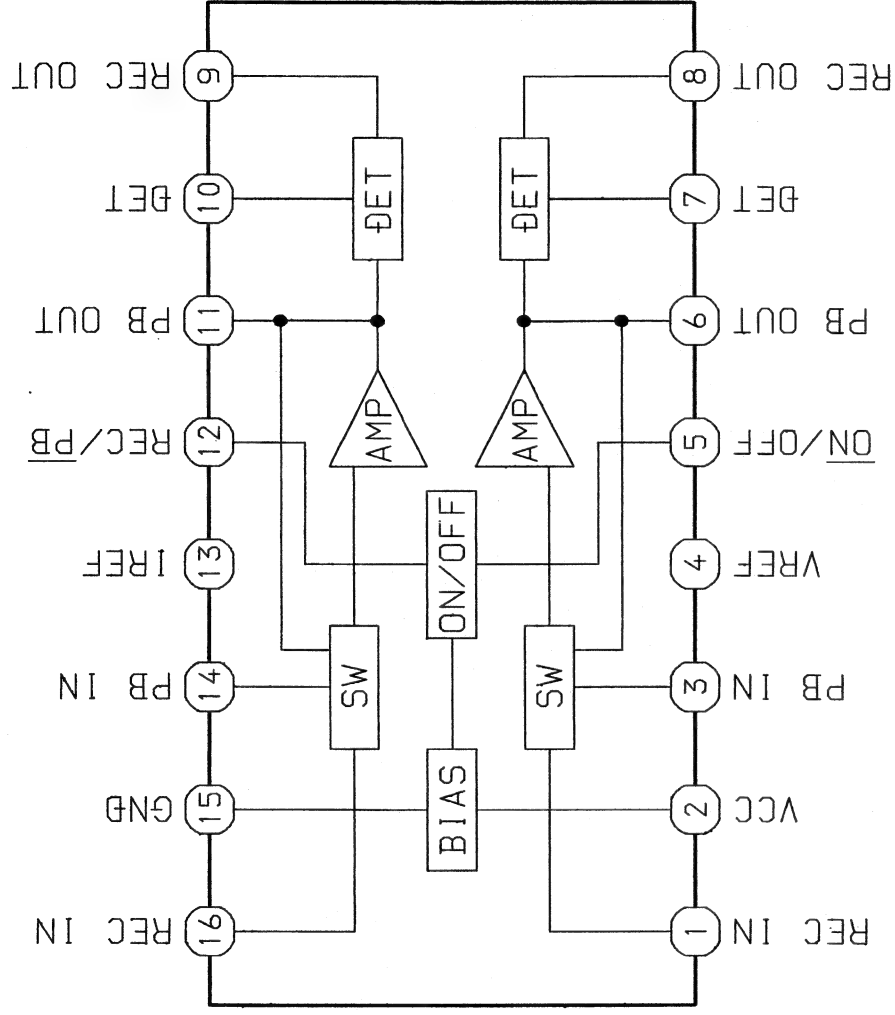
IC DESCRIPTION (FX-WZ7300)  
IC, LC66406-4B19

Pin No.	Pin Name	I/O	Description
			KEY DATA input
			When K • SCAN 1 is "H" is "H" When K • SCAN 2 is "H" is "H" When K • SCAN 3 is "H" is "H" When K • SCAN 4 is "H" is "H"
1	DATA1	I	DECK 2 REC A SW input
42	DATA2	I	DECK 1 CST SW input
41	DATA3	I	DECK 2 REC B SW input
2	O • K • SCAN1	O	DECK 1 STOP SW input
3	O • K • SCAN2	O	DECK 2 STOP SW input
4	O • K • SCAN3	O	DECK 1/2 SW input
5	I-REMOTE	I	DECK 1/2 SW input
6	O-LMT	O	DECK 1/2 SW input
7	O-POWER	O	DECK 1/2 SW input
8	O-BIAS	O	DECK 1/2 SW input
9	O-STB(CS)	O	DECK 1/2 SW input
10	O-DATA(SO)/ K • SCAN4	O	DECK 1/2 SW input
11	O-CLK	O	DECK 1/2 SW input
12	O-PB2	O	DECK 1/2 SW input
13	I-AUTO1	I	DECK 1/2 SW input
14	I-AUTO2	I	DECK 1/2 SW input
15	I-MS	I	DECK 1/2 SW input
16	. NC	-	DECK 1/2 SW input
17	O-PLAY	O	DECK 1/2 SW input
18	O-RMT	O	DECK 1/2 SW input
19	TEST	-	DECK 1/2 SW input
20	VSS	-	DECK 1/2 SW input
21	OSC1	-	DECK 1/2 SW input
22	OSC2	-	DECK 1/2 SW input
23	RESET	I	DECK 1/2 SW input
24	O-MOTOR	O	DECK 1/2 SW input
25	O-SOL2	O	DECK 1/2 SW input
26	O-SOL1	I	DECK 1/2 SW input
27	O-INT REC	O	DECK 1/2 SW input
28	I/O-SERIAL	I/O	DECK 1/2 SW input

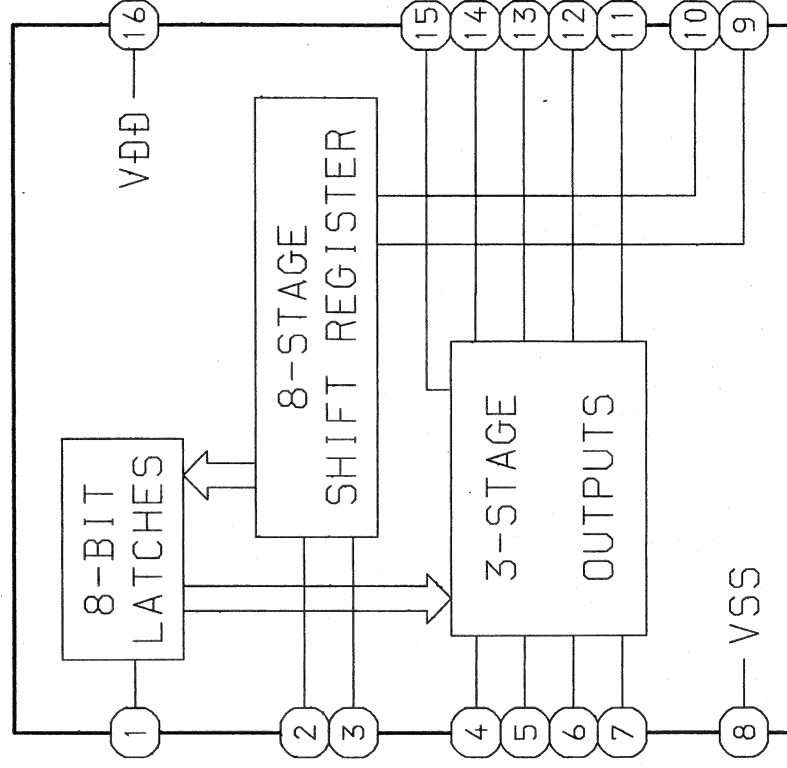
Pin No.	Pin Name	I/O	Description
29	NC	-	Not used.
30	O-DOLBY ON	O	DOLBY NO ON/OFF switching output terminal. "H" at DOLBY NR ON.
31	O-REC	O	Dolby encoder/decoder switching output terminal. "H" at recording and "L" at dubbing.
32	O-HSP	O	High-speed control output terminal for DECK 1 and 2. "H" at HIGH SPEED DUBBING.
33			
34			
35			
36			
37			
38	I-AD2	I	Key function control input terminal.
39	I-AD1	I	Key function control input terminal.
40	VDD	-	Power terminal(+5V).

# IC BLOCK DIAGRAM – 1 (FX-WZ7300)

IC, HA12134A

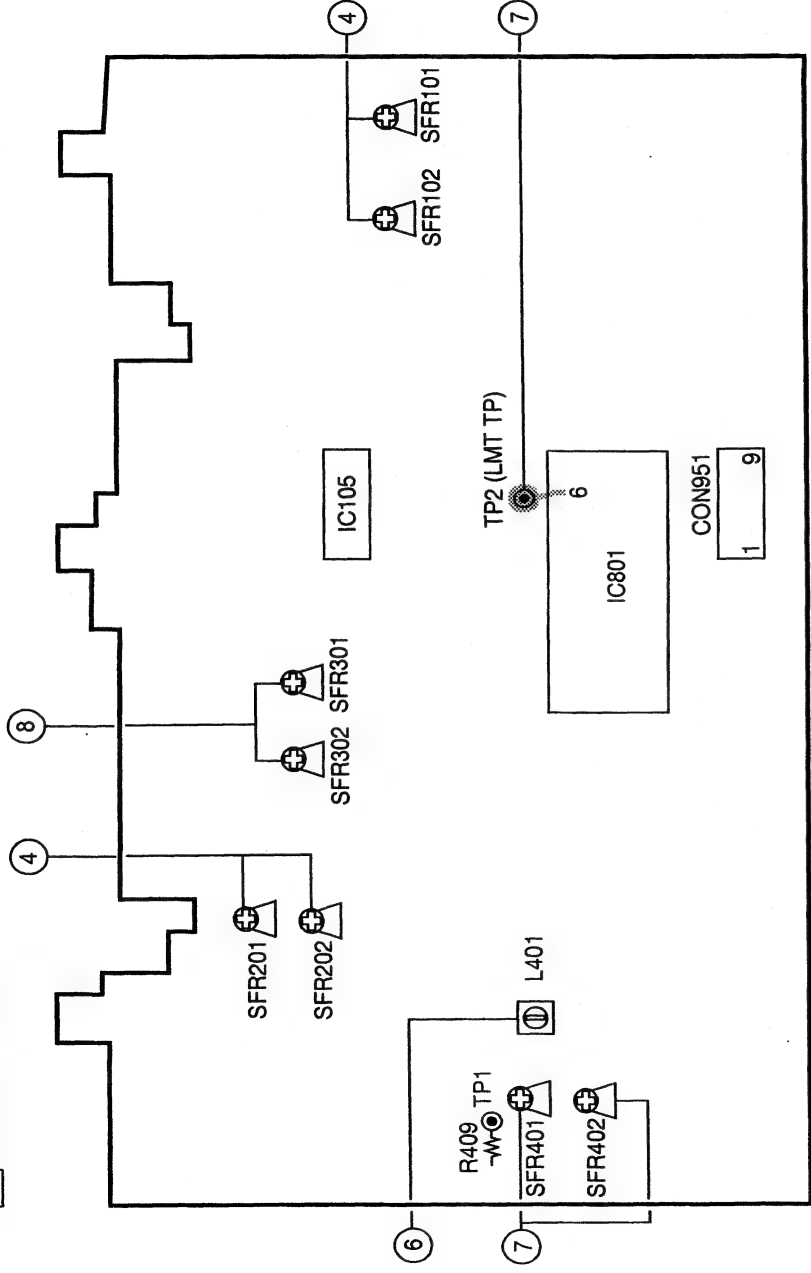


IC, TC9049BP

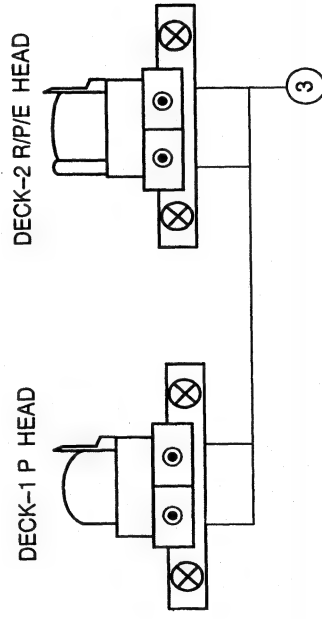
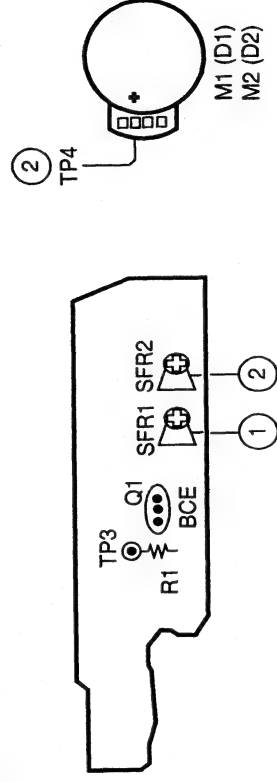


# ADJUSTMENT (FX-WZ7300)

## A MAIN C.B



## D DECK-1 C.B E DECK-2 C.B





1. Normal Speed Adjustment (DECK 1, DECK 2)  
Settings : • Test tape : TTA-100 (TTA-111S)  
• Test point : PB-OUT (CON951)  
• Adjustment location : SFR2 (DECK 1, 2)  
Method : Play back the test tape, adjust for  $3000\text{Hz} \pm 7\text{Hz}$ .
2. High Speed Adjustment (DECK 1, DECK 2)  
Settings : • Test tape : TTA-100 (TTA-111S)  
• Test point : PB-OUT (CON951)  
• Adjustment location : SFR1 (DECK 1, 2)  
Method : After normal speed adjustment, play back the test tape, and make the high speed condition to be shorted between TP3 and TP4.  
Adjust for  $6000\text{Hz} \pm 10\text{Hz}$ .

3. Head Azimuth Adjustment (DECK 1, DECK 2)  
Settings : • Test tape : TTA-310 (TTA-317E, SCC-1429)  
• Test point : PB-OUT (CON951)  
• Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

4. PB Level Adjustment (DECK 1, DECK 2)  
Settings : • Test tape : TTA-200 (TTA-161, TCC-130)  
• Test point : PB-OUT (CON951)  
• Adjustment location : SFR101 (DECK 1, L ch)  
SFR102 (DECK 1, R ch)  
SFR201 (DECK 2, L ch)  
SFR202 (DECK 2, R ch)  
Method : Play back the test tape and adjust so that the output becomes  $280\text{mV} \pm 15\text{mV}$ .

5. FWD/REV Playback Output Difference Check (DECK 1, DECK 2)  
Settings : • Test tape : TTA-200 (TTA-161, TCC-130)  
• Test point : PB-OUT (CON951)

Method : Play back the test tape and make sure that the output difference between the FWD and REV mode is  $0\text{dB} \pm 0.7\text{dB}$

6. Bias Frequency Adjustment (DECK 2)  
Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)  
• Test point : TP1 (R409)  
• Adjustment location : L401

Method : Set DECK 2 to the REC mode. Adjust L451 so that the frequency counter of the test point becomes  $107.5\text{kHz} \pm 1.5\text{kHz}$ .

7. REC/PB Frequency Response Adjustment (DECK 2)  
Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)  
• Test point : PB-OUT (CON951)  
• Adjustment location : SFR401 (Lch)  
SFR402 (Rch)

Method : Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB-OUT becomes  $25\text{mV}$ .  
Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes  $0\text{dB} \pm 0.4\text{dB}$  with respect to that of the 1kHz signal.

After adjustment, remove the grounding lead wire.

8. REC/PB Sensitivity Adjustment (DECK 2)  
Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)  
• Test point : PB-OUT (CON951)  
• Adjustment location : SFR301 (Lch)  
SFR302 (Rch)

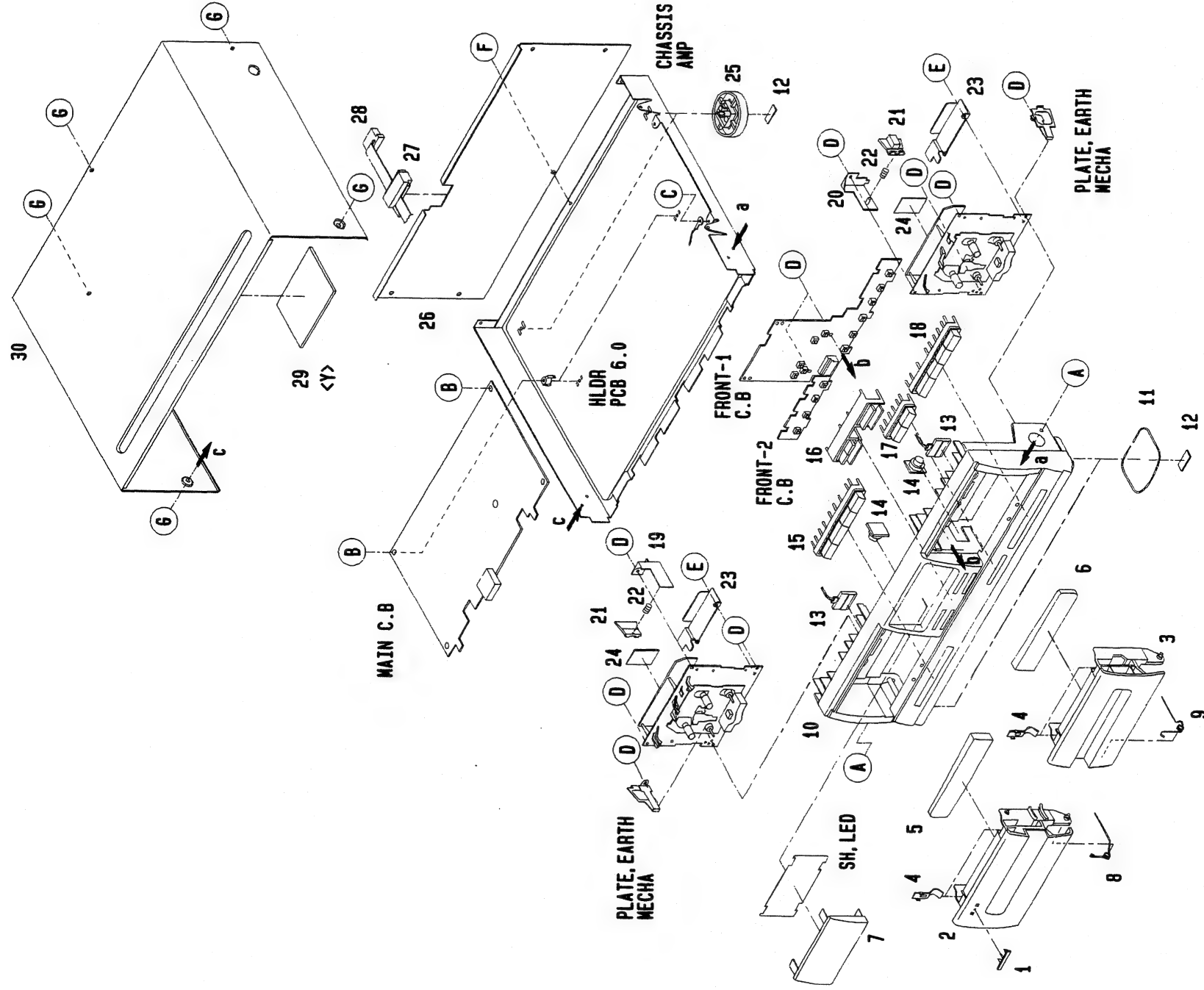
Method : Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB-OUT becomes  $25\text{mV}$ .  
Record and play back the 1kHz signal and adjust SFR so that the output becomes  $0\text{dB} \pm 0.3\text{dB}$  with.

After adjustment, remove the grounding lead wire.

## PRACTICAL SERVICE FIGURE (FX-WZ7300)

PB Output level :	$280\text{mV} \pm 38\text{mV}$
REC/PB Output level :	$250\text{mV} \pm 1\text{mV}$ (PB-OUT, 1kHz)
Distortion (REC/PB) :	Less than 2.0% (CrO2, METAL)
Erasing ratio :	More than 60dB
Crosstalk :	More than 60dB
Channel separation :	More than 35dB
Noise level (PB) :	Less than 1.8mV (DOLBY NR OFF NORM)
	Less than 0.9mV
	(DOLBY B ON CrO2)
Noise level (REC/PB) :	Less than 2.0mV (DOLBY OFF NORM)
	Less than 1.0mV
	(DOLBY B ON CrO2 MT)
REC bias frequency :	108kHz
Tape speed :	$3000\text{Hz} \pm 1.5\%$
Wow & flutter :	Less than 0.18% (W RMS DECK1,2)
Take-up torque :	$30 \sim 55\text{g-cm}$ (DECK1,2)
F.F & REW torque :	$75 \sim 180\text{g-cm}$ (DECK1,2)
Back tension :	$2 \sim 7\text{g-cm}$ (DECK1,2)
Test tape :	NORMAL : TTA-602 CrO2 : TTA-610

MECHANICAL EXPLODED VIEW 1/1 (FX-WZ7300)



# MECHANICAL PARTS LIST 1 / 1 (FX-WZ7300)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-NB8-032-019		BADGE AIWA 27.5
2	85-VW1-002-019		BOX, CASS 1
3	85-VW1-003-019		BOX, CASS 2
4	80-CD3-218-110		SPR-P CASS
5	85-VW1-008-019		WINDOW, BOX 1
6	85-VW1-009-019		WINDOW, BOX 2
7	85-VW2-002-019		WINDOW, DISPLAY
8	82-NF5-219-019		SPR-T, EJECT 2 (SIN)
9	82-NF5-218-019		SRT-T, EJECT 1 (SIN)
10	85-VW2-001-019		CAB, FR
11	84-VW5-013-010		RING, FOOT
12	82-VW2-211-019		FELT, 20-7.5-2
13	87-070-108-019		LED SLF301C-37
14	87-063-165-019		OIL-DMPR 150
15	85-VW1-004-019		KEY, PLAY 1
16	85-VW2-003-019		KEY, DUBB
17	85-VW1-005-019		KEY, REC
18	85-VW1-012-019		KEY, PLAY 2
19	82-NF5-227-019		HLDR, LOCK 2N
20	82-NF5-226-019		HLDR LOCK 1N
21	82-NF5-229-019		PLATE, LOCK
22	82-NF5-228-019		SPR-C, LOCK
23	82-VW2-618-119		PLATE, SHLD MECHA
24	80-MK2-206-010		DMPR 27-44.5-3
25	81-VX1-012-019		FOOT, REAR
26	85-VW2-004-019		PANEL, REAR YBN<Y>
26	85-VW2-005-019		PANEL, REAR YJBN<YJ>
27	89-VT5-202-010		BUSHING CORD
28	82-VW2-623-019		CORD, FG 9P 750
29	82-226-274-010		DMPR, 80-60-3<Y>
30	81-VW1-017-119		CAB, STEEL
A	87-721-095-419		QT2+3-8GLD W/O SLOT
B	87-067-776-019		BVT2+3-12W, CONVEX
C	87-067-584-019		BVT2+3-6 W/O SLOT
D	87-067-703-019		BVT2+3-10 (W/O SLOT)
E	87-067-178-019		VTT+2.6-3
F	87-067-660-019		BVT2+3-8W/O SLOT BLK
G	87-743-094-419		UT 2+3-6 W/O SLOT BLK

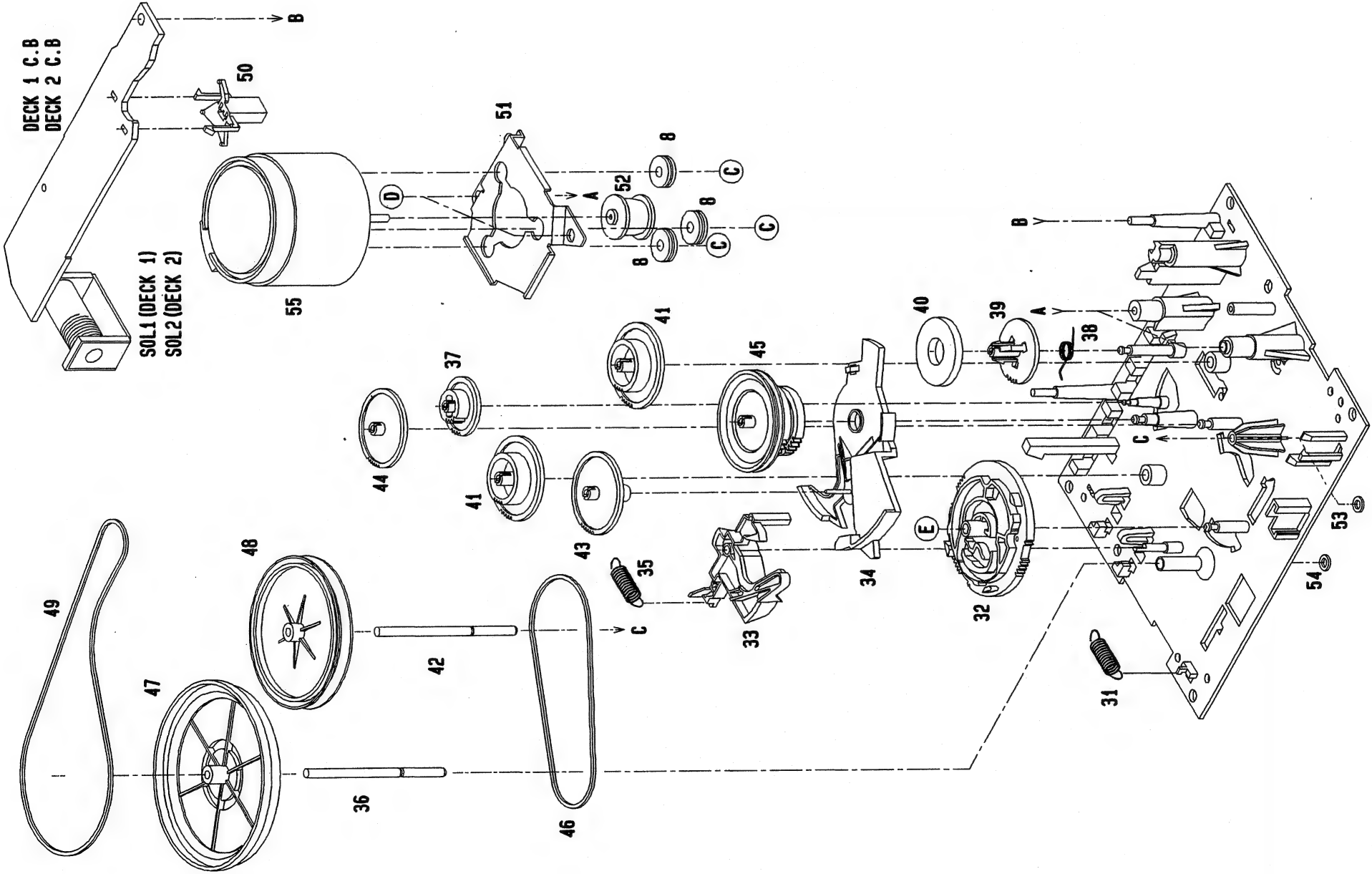
Diagram illustrating the assembly of a mechanical component, showing various parts and their assembly sequence:

- 1: Main assembly plate.
- 2: Spring.
- 3: Lever arm.
- 4: Small bracket.
- 5: Relay assembly (RELAY 1 C.B. / RELAY 2 C.B.).
- 6: Pin.
- 7: Base plate.
- 8: Small pin.
- 9: Lever arm.
- 10: Pin.
- 11: Lever arm.
- 12: Pin.
- 13: Lever arm.
- 14: Pin.
- 15: Lever arm.
- 16: Lever arm.
- 17: Spring.
- 18 (DECK 2): Lever arm.
- 19: Lever arm.
- 20: Pin.
- 21: Spring.
- 22: Pin.
- 23: Lever arm.
- 24 (DECK 2): Lever arm.
- 25: Lever arm.
- 26: Lever arm.
- 27: Lever arm.
- 28: Spring.
- 29 (DECK 2): Lever arm.
- 30: Lever arm.
- 31: Lever arm.
- 32: Lever arm.
- 33: Lever arm.
- 34: Lever arm.
- 35: Lever arm.
- 36: Lever arm.
- 37: Lever arm.
- 38: Lever arm.
- 39: Lever arm.
- 40: Lever arm.
- 41: Lever arm.
- 42: Lever arm.
- 43: Lever arm.
- 44: Lever arm.
- 45: Lever arm.
- 46: Lever arm.
- 47: Lever arm.
- 48: Lever arm.
- 49: Lever arm.
- 50: Lever arm.
- 51: Lever arm.
- 52: Lever arm.
- 53: Lever arm.
- 54: Lever arm.
- 55: Lever arm.
- 56: Lever arm.
- 57: Lever arm.
- 58: Lever arm.
- 59: Lever arm.
- 60: Lever arm.
- 61: Lever arm.
- 62: Lever arm.
- 63: Lever arm.
- 64: Lever arm.
- 65: Lever arm.
- 66: Lever arm.
- 67: Lever arm.
- 68: Lever arm.
- 69: Lever arm.
- 70: Lever arm.
- 71: Lever arm.
- 72: Lever arm.
- 73: Lever arm.
- 74: Lever arm.
- 75: Lever arm.
- 76: Lever arm.
- 77: Lever arm.
- 78: Lever arm.
- 79: Lever arm.
- 80: Lever arm.
- 81: Lever arm.
- 82: Lever arm.
- 83: Lever arm.
- 84: Lever arm.
- 85: Lever arm.
- 86: Lever arm.
- 87: Lever arm.
- 88: Lever arm.
- 89: Lever arm.
- 90: Lever arm.
- 91: Lever arm.
- 92: Lever arm.
- 93: Lever arm.
- 94: Lever arm.
- 95: Lever arm.
- 96: Lever arm.
- 97: Lever arm.
- 98: Lever arm.
- 99: Lever arm.
- 100: Lever arm.



TAPE MECHANISM PARTS LIST 1 / 1 (FX-WZ7300)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

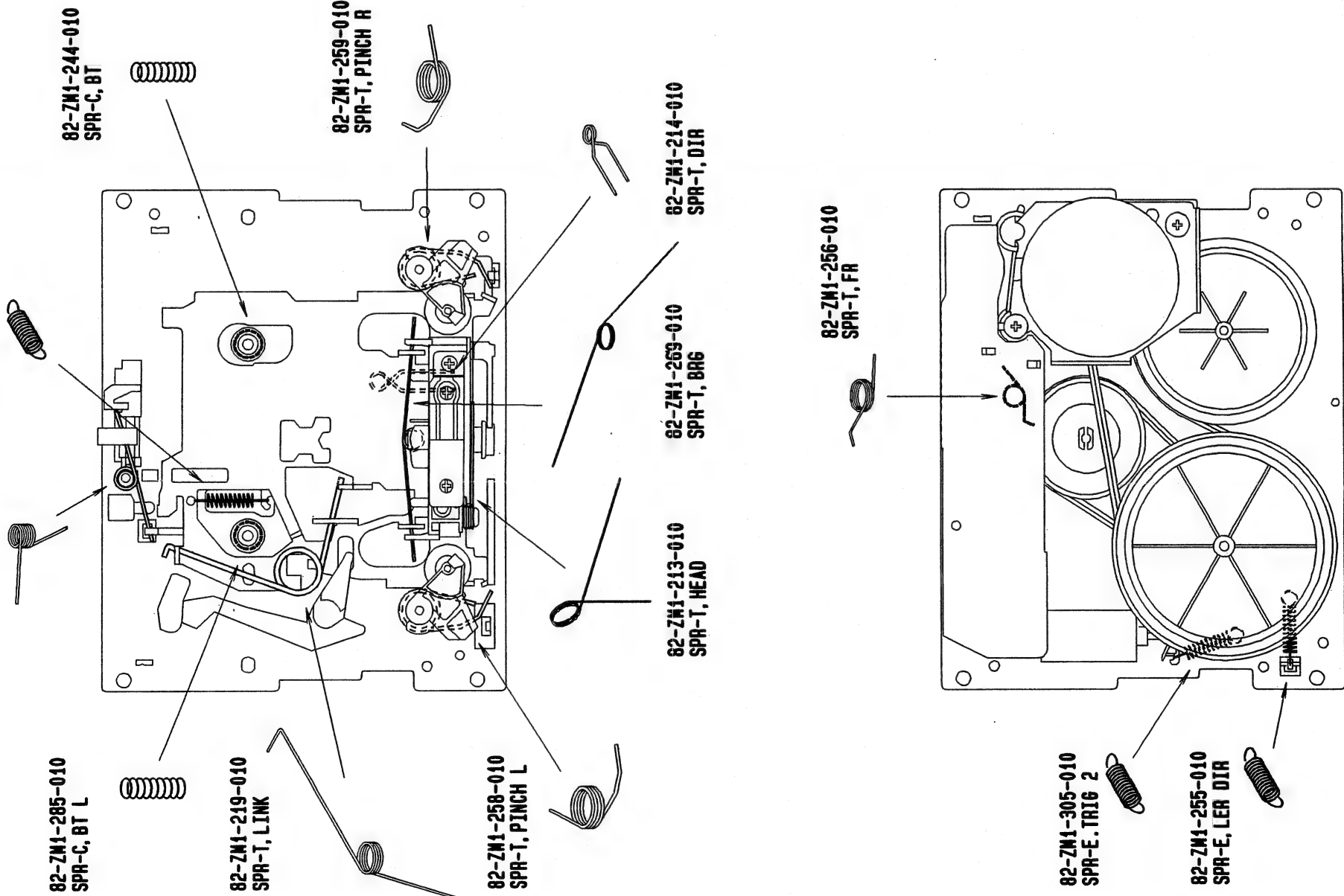


REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-299-010		CHAS ASSY, R
2	82-ZM1-258-010		SPR-T, PINCH L
3	82-ZM1-248-110		LVR ASSY, PINCH L
4	82-ZM1-295-210		PLATE ASSY, LINK
5	82-ZM1-266-010		LVR, DIR
6	82-ZM1-214-010		SPR-T, DIR
7	82-ZM1-206-210		CHAS, HEAD
9	82-ZM1-269-010		SPR-T, BRG
10	82-ZM1-219-010		SPR-T, LINK
11	82-ZM1-210-010		GEAR, H T
12	82-ZM1-213-010		SPR-T, HEAD
13	82-ZM1-207-010		GUIDE, TAPE
14	82-ZM1-283-310		S-SCREW, AZIMUTH
15	82-ZM1-314-119		PLATE, HEAD
16	82-ZM1-208-010		HLDR, HEAD
17	82-ZM1-218-010		SPR-E, HB
18	82-ZM1-263-110		LVR, EJECT (DECK 2)<R1>
18	82-ZM1-264-010		LVR, EJECT R (DECK 1)<P1>
19	82-ZM1-222-010		LVR, PLAY
20	82-ZM1-217-110		REEL TABLE
21	82-ZM1-244-110		SPR-C, BT
22	82-ZM1-285-110		SPR-C, BT L
23	82-ZM1-257-010		SPR-T, CAS
24	82-ZM1-241-110		LVR, MC
25	82-ZM1-242-010		LVR, CAS
26	82-ZM1-243-010		LVR, STOP
27	82-ZM1-253-110		LVR ASSY, PINCH R
28	82-ZM1-259-010		SPR-T, PINCH R
29	82-ZM1-240-110		LVR, REC (DECK 2)<R1>
30	82-ZM1-298-010		SPR-P, EARTH
31	82-ZM1-255-110		SPR-E, LVR DIR
32	82-ZM1-221-110		GEAR, CAM
33	82-ZM1-227-110		LVR, TRIG
34	82-ZM1-224-110		LVR, FR
35	82-ZM1-305-010		SPR-E, TRIG 2
36	82-ZM1-312-019		CAPSTAN, N 2.2-41.7
37	82-ZM1-223-010		GEAR, PLAY
38	82-ZM1-256-110		SPR-T, FR
39	82-ZM1-220-110		GEAR, IDLER
40	82-ZM1-316-010		RING MAGNET 3
41	82-ZM1-216-210		GEAR, REEL
42	82-ZM1-313-019		CAPSTAN, N 2-41.5
43	82-ZM1-225-010		GEAR, FR
44	82-ZM1-226-010		GEAR, REW
45	82-ZM1-228-210		SLIP DISK ASSY
46	82-ZM1-328-010		BELT, FR 2
47	82-ZM1-238-51K		FLY-WHL ASSY, R
48	82-ZM1-235-21K		FLY-WHL ASSY, L
49	82-ZM1-260-010		BELT, MAIN
50	82-ZM1-245-210		HLDR, IC
51	82-ZM1-307-010		HLDR, MOTOR B
52	82-ZM1-247-010		PULLEY, MOTOR
53	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
54	80-ZM6-243-010		SH, 1.75-3.6-0.5 SLT
55	87-045-348-010		MOT, SHW 2L 70(M1)
56	87-046-355-010		HEAD, PH HADKE2529B(PH)<P1>
56	87-046-356-010		HEAD, RPH HADKE5581B(RPH)<R1>
A	82-ZM1-315-010		S-SCREW, GUIDE TAPE
B	80-ZM6-207-010		V+1.6-7
C	82-ZM1-309-010		S-SCREW, MOTOR
D	87-741-073-410		UT2+2.6-6 GLD
E	87-067-932-010		PW, 2.15-6.8-0.5 SLT

MODEL NO.  
**GE-Z7300**

CAUTIONS WHEN SERVICING (GE-Z7300)

Model GE-Z7300 does not have a power supply circuit and a control circuit.  
Connect the GE-Z7300 to the MX-Z7300M/8300M, when servicing.



ELECTRICAL MAIN PARTS LIST

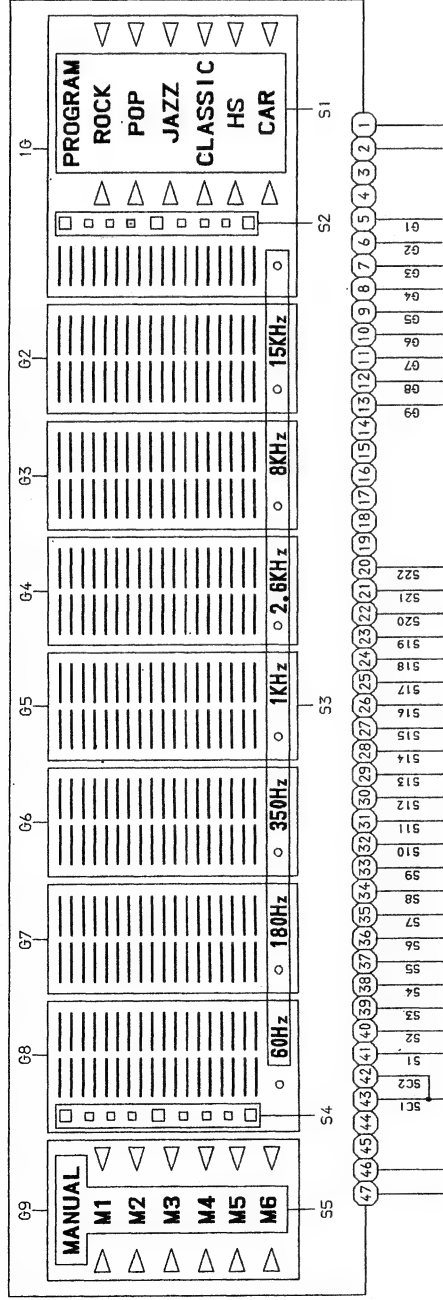
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC	82-VU1-631-010	IC, LC65204A-4B13 IC, BA3826S IC, NJM78ML05A		C100	87-018-209-089		CAP, TC-U 0.1-50 F
	87-002-950-019			C101	87-018-134-089		CAP, TC-U 0.01-16 Y
	87-001-637-089			C102	87-010-078-089		CAP, E 47-6.3 5L
				C103	87-010-078-089		CAP, E 47-6.3 5L
TRANSISTOR		TR, 2SC2001K TR, DTA114ES TR, DTC114ES TR, 2SC3328Y TR, 2SA1015GR		C104	87-018-131-089		CAP, TC-U 1000P-50
				C105	87-018-134-089		CAP, TC-U 0.01-16 Y
				FL1	82-VU1-630-010		FL, BJ126GK
				FL2	82-VU1-630-010		FL, BJ126GK
DIODE				L1	87-003-136-089		COIL, 100UH
				L3	87-003-147-089		COIL, 22UH
				R82	87-022-482-059		RES, NF 3.3-1/4WJ
				R83	87-022-482-059		RES, NF 3.3-1/4WJ
MAIN C.B	87-020-123-089	DIODE, DS446-AT(TA) ZENER, HZ22-2L ZENER, HZ182LT2 DIODE, 1SS132 T-72		S1	87-036-215-089		SW, TACT EVQ21404M
	87-027-323-089			S2	87-036-215-089		SW, TACT EVQ21404M
	87-027-347-089			S4	87-036-215-089		SW, TACT EVQ21404M
	87-020-691-089			S5	87-036-215-089		SW, TACT EVQ21404M
				S6	87-036-215-089		SW, TACT EVQ21404M
				S7	87-036-215-089		SW, TACT EVQ21404M
				S8	87-036-215-089		SW, TACT EVQ21404M
				S9	87-036-215-089		SW, TACT EVQ21404M
				S10	87-036-215-089		SW, TACT EVQ21404M
				S11	87-036-215-089		SW, TACT EVQ21404M
				S12	87-036-215-089		SW, TACT EVQ21404M
				S13	87-036-215-089		SW, TACT EVQ21404M
				S14	87-036-215-089		SW, TACT EVQ21404M
				S15	87-036-215-089		SW, TACT EVQ21404M
				S16	87-036-215-089		SW, TACT EVQ21404M
				S17	87-036-215-089		SW, TACT EVQ21404M
				S18	87-036-215-089		SW, TACT EVQ21404M
				S19	87-036-215-089		SW, TACT EVQ21404M
				S20	87-036-215-089		SW, TACT EVQ21404M
				T1	82-VU1-615-019		COIL, FL
				WH1	82-VU1-632-019		CORD, 9P, FG 55CM
				X1	89-MX1-704-089		CERA LOCK(MU) 3.9MHZ
				X2	89-MX1-704-089		CERA LOCK(MU) 3.9MHZ

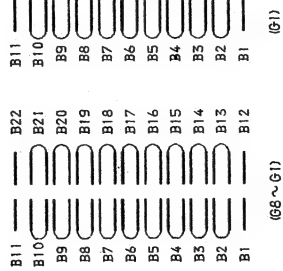
IC DESCRIPTION (GE-Z7300)  
IC, LC65204A-4B13

FL, BJI26GK

## GRID ASSIGNMENT

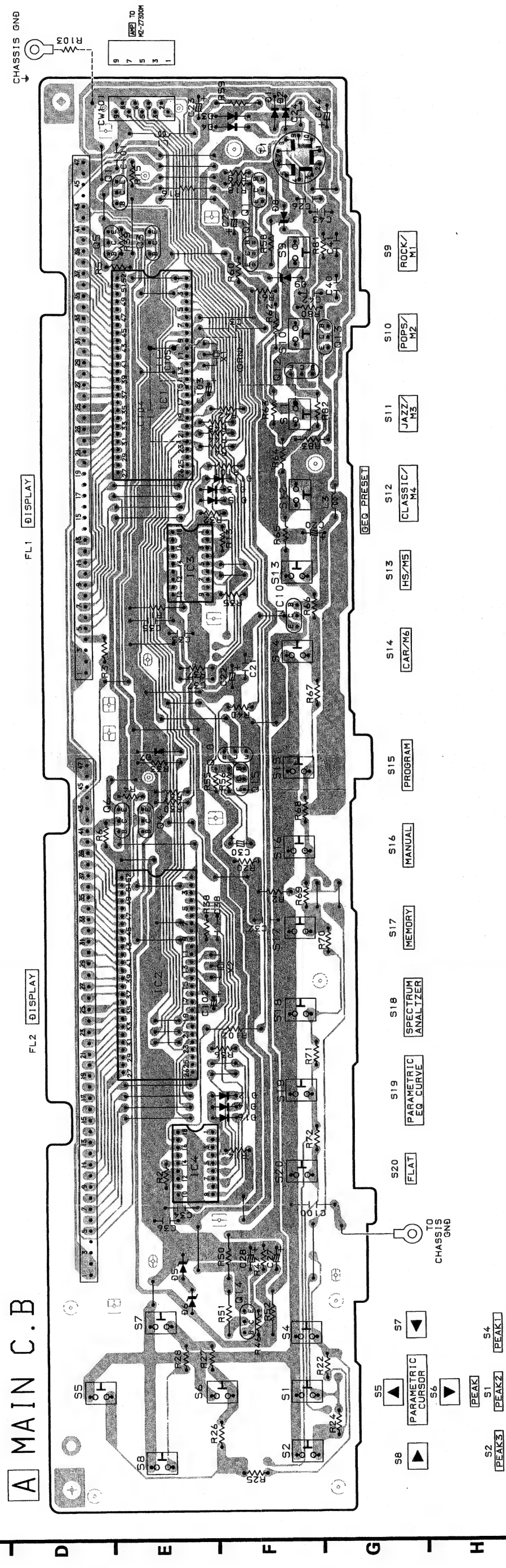


## ANODE CONNECTION

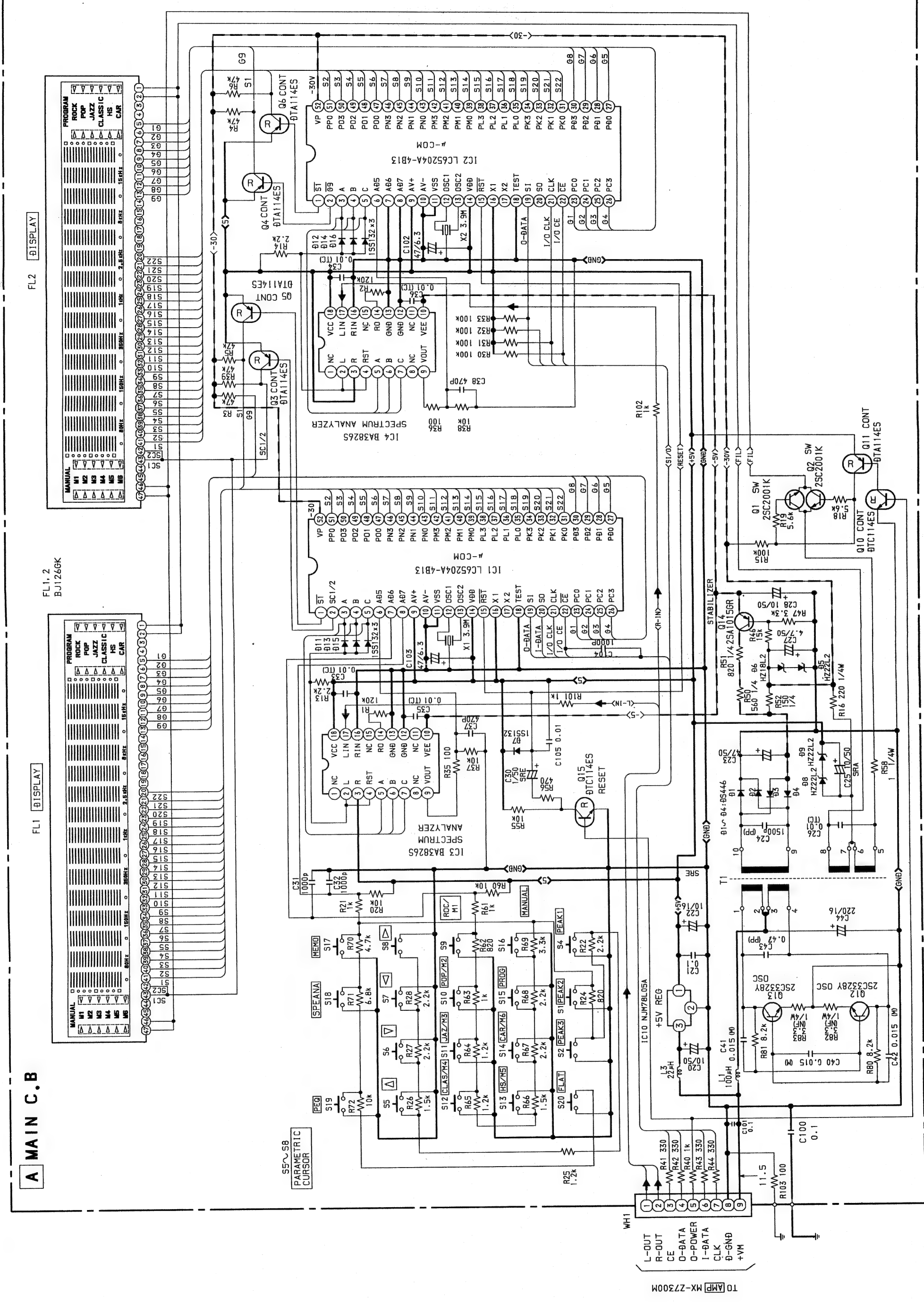


P1	G9	G8	G7	G6	G4	G3	G2	G1
P2	G9	G8	G7	G6	G4	G3	G2	G1
P3	G9	G8	G7	G6	G4	G3	G2	G1
P4	G9	G8	G7	G6	G4	G3	G2	G1
P5	G9	G8	G7	G6	G4	G3	G2	G1
P6	G9	G8	G7	G6	G4	G3	G2	G1
P7	G9	G8	G7	G6	G4	G3	G2	G1
P8	G9	G8	G7	G6	G4	G3	G2	G1
P9	G9	G8	G7	G6	G4	G3	G2	G1
P10	G9	G8	G7	G6	G4	G3	G2	G1
P11	G9	G8	G7	G6	G4	G3	G2	G1
P12	G9	G8	G7	G6	G4	G3	G2	G1
P13	G9	G8	G7	G6	G4	G3	G2	G1
P14	G9	G8	G7	G6	G4	G3	G2	G1
P15	G9	G8	G7	G6	G4	G3	G2	G1
P16	G9	G8	G7	G6	G4	G3	G2	G1
P17	G9	G8	G7	G6	G4	G3	G2	G1
P18	G9	G8	G7	G6	G4	G3	G2	G1
P19	G9	G8	G7	G6	G4	G3	G2	G1
P20	G9	G8	G7	G6	G4	G3	G2	G1
P21	G9	G8	G7	G6	G4	G3	G2	G1
P22	G9	G8	G7	G6	G4	G3	G2	G1
P23	G9	G8	G7	G6	G4	G3	G2	G1
P24	G9	G8	G7	G6	G4	G3	G2	G1

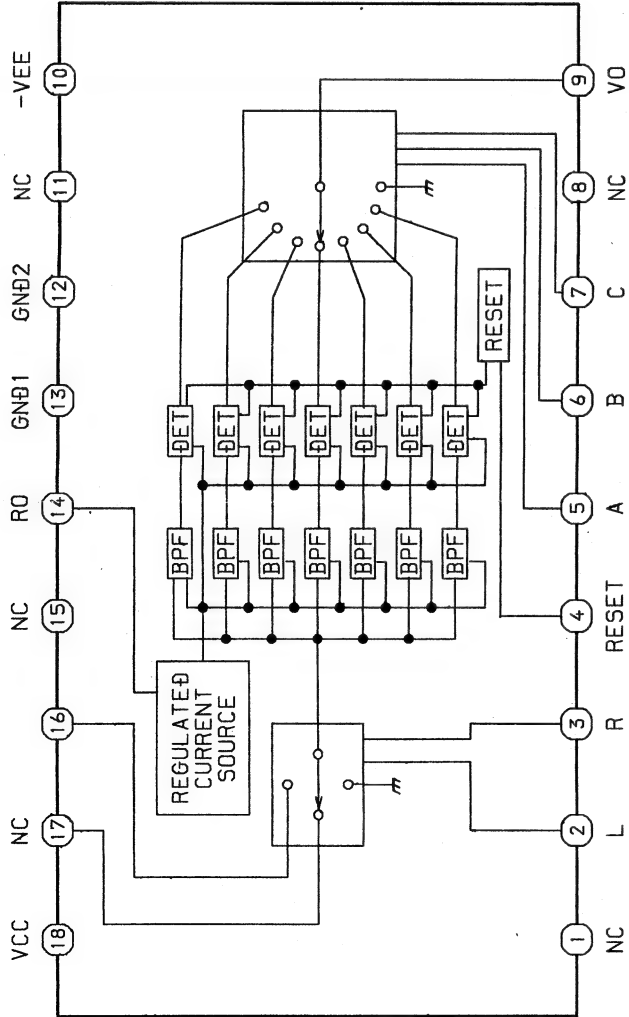
Pin No.	Pin Name	I/O	Description
1	$\overline{SI}$	O	FL display segment output.
2	SCI / 2	O	FL display control.
3	A	O	BA3826S output signal control.
4	B	O	
5	C	O	
6	ADS5	I	Sound direct input. (DC level)
7	ADS6	I	AD input for key input.
8	ADS7	I	
9	AV+	-	Connected to +5V line.
10	AV-	-	GND.
11	VSS	-	GND.
12	OS1	-	X'tal terminal. (3.9MHz).
13	OS2	-	
14	VDD	-	Power supply. (+5V)
15	$\overline{RST}$	I	Reset signal input.
16	X1	I	Connected to +5V line.
17	X2	-	Not used. (not connected)
18	TEST	I	Connected to GND.
19	SI	I	Data input from CXP82324.
20	SO	O	Data output to CXP82324.
21	CLK	I	Clock signal input from CXP82324.
22	$\overline{CE}$	I	Strobe signal input from CXP82324.
23 ~ 26	PC0 ~ PC3	O	FL display grid drive signals.
27 ~ 30	PD0 ~ PD3	O	FL display grid drive signals.
31 ~ 34	PK0 ~ PK3	O	FL display segment output.
35 ~ 38	PL0 ~ PL3	O	
39 ~ 42	PM0 ~ PM3	O	
43 ~ 46	PN0 ~ PN3	O	
47 ~ 50	PO0 ~ PO3	O	
51	PPO	O	
52	VP	I	FL display power supply. (-30V)







IC, BA3826S

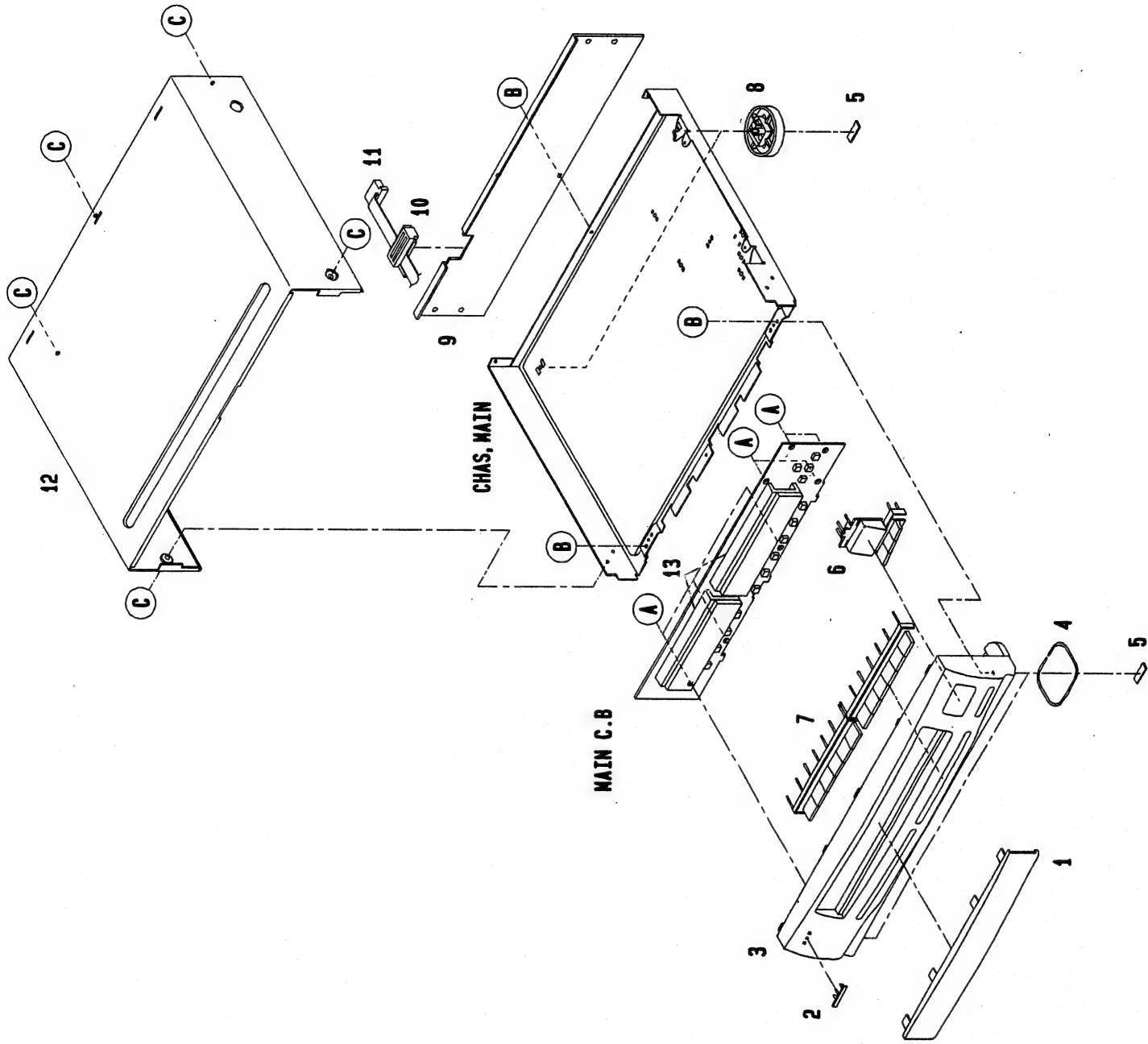


INPUT SELECTOR LOGIC TABLE

SELECTOR	INPUT
L (5PIN) R (6PIN)	UNDETERMINED
L	L 1N
H	R 1N
L	OFF

OUTPUT SELECTOR LOGIC TABLE

SELECT			OUTPUT
A (5PIN)	B (6PIN)	C (7PIN)	C (7PIN)
H	H	H	0
L	H	H	F01
H	L	H	F02
L	L	H	F03
H	H	L	F04
L	H	L	F05
H	L	L	F06
L	L	L	F07



# MECHANICAL PARTS LIST 1 / 1 (GE-Z7300)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-VU1-005-019		WINDOW,DISPLAY
2	82-NE8-032-019		BADGE AIWA 27.5
3	85-VU2-001-019		CAB,FR
4	84-VM5-013-010		RING,FOOT
5	82-VW2-211-019		FELT,20-7.5-2
6	85-VU1-004-019		KEY,CRSR
7	85-VU1-003-019		KEY,GEQ
8	81-VX1-012-019		FOOT, REAR
9	85-VU2-004-019		PANEL,REAR YBN<Y>
9	85-VU2-005-019		PANEL,REAR YBN<YJ>
10	89-VT5-202-010		BUSHING CORD
11	82-VU1-632-019		CORD 9PFG55CM
12	82-VT1-009-119		CAB,STEEL
13	81-DS2-204-219		GUIDE FL
A	87-067-703-019		BVT2+3-10 (W/O SLOT)
B	87-067-660-019		BVT2+3-8W/O SLOT BLK
C	87-067-641-019		UTT2+3-8 W/O SLOT BLK

MODEL NO.

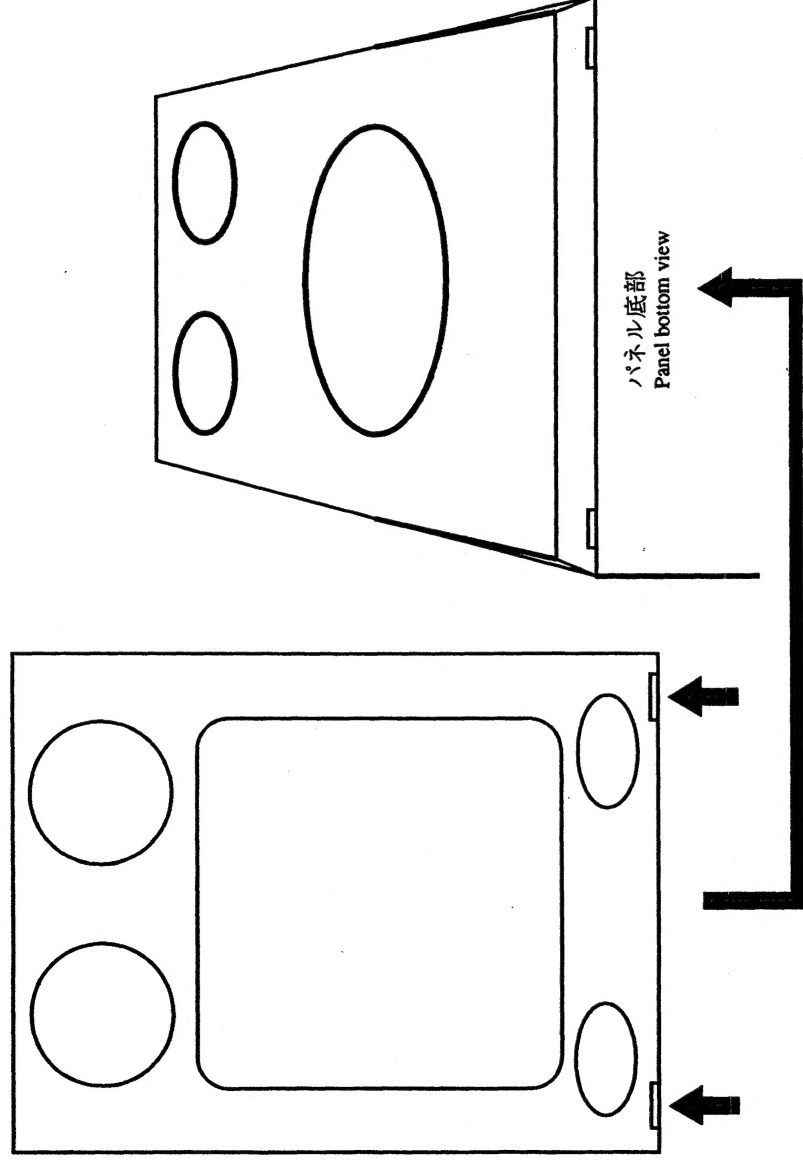
# SX-FZ7300

## DISASSEMBLY INSTRUCTIONS

矢印の位置にマイナスイボドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。

Insert a flat - bladed screwdriver into the position indicated by the arrows and remove the panel.

Remove the screws of each speaker unit and then remove the speaker units.





## SPEAKER PARTS LIST (SX-FZ7300)

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-VS1-002-010	PANEL W	
2	85-VS1-003-010	PANEL TW ASSY	
3	84-VS1-005-010	GRILL FRAME ASSY	
4	85-VS1-008-010	PACKING (DUCT)	
5	84-VS2-604-010	SPEAKER WOOFER	
6	84-VS3-603-010	SPEAKER TWEETER	

# REFERENCE NAME LIST

## ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

## MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

アイワ株式会社  
AIWA CO.,LTD.

912204, 750038

Tokyo Japan

〒110 東京都台東区池之端1-2-11

☎03 (3827) 3111

(代表)

Printed by: Schaltungsdienst Lange, Berlin (GERMANY)